

The



# CHEMIST AND DRUGGIST

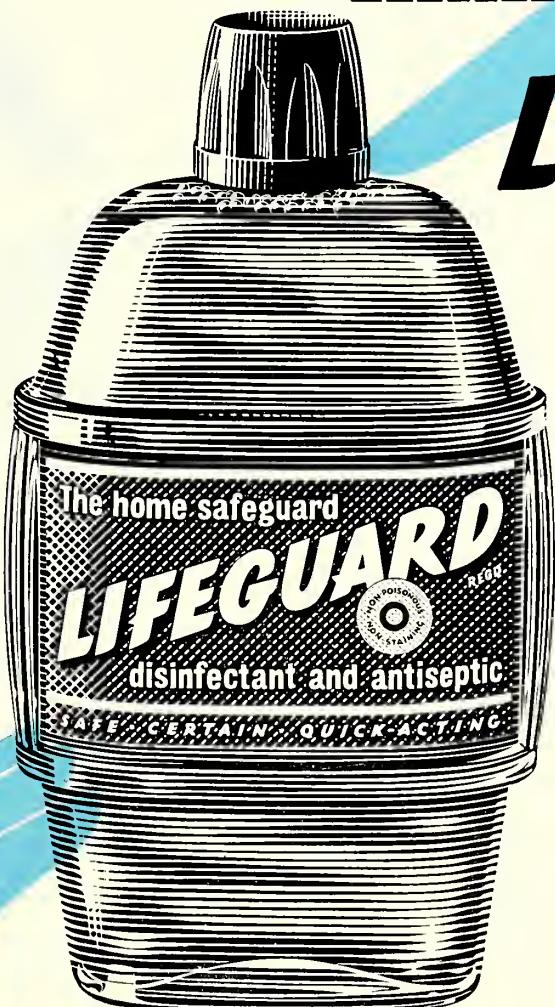
For Retailer, Wholesaler and Manufacturer

AUGUST 28 1954

Of course, there's an ever-increasing demand for

**LIFEGUARD**  
REGD.

THE SUPREME DISINFECTANT



- \* Bigger and bigger sales every year
- \* A name that inspires confidence
- \* A pack that's a display in itself
- \* Regular, widespread advertising
- \* Excellent terms

GIBBS PRESENT

# Sunsilk

a revolutionary shampoo

*Far better results  
with only one  
lather!*



## Biggest shampoo launch ever

... will announce Sunsilk. Sunsilk lathers *first time*—cleanses thoroughly *with one application*. There is no need for a second lather, which tends to wash away vital natural oils. That means Sunsilk leaves hair silkier and far more manageable than it could ever be before !

**IMPORTANT** Gibbs' representative will be calling to see you. He will give you details of a giant advertising programme and very generous launch bonus. Get in right at the start — *Sunsilk will revolutionise the shampoo market!*



for **SANGERS**  
*Speed*  
*Service*  
*Satisfaction*

## **SANGERS' SERVICE IS COUNTRYWIDE**

Our branches enable us to cover all districts quickly. One of them serves your district; so get in touch with the nearest address and you will be served without delay.

## **SANGERS' STOCKS ARE AMPLE**

We can normally meet from stock immediately, orders for: Ethicals, Pharmaceuticals, Proprietaries, or Galenicals.

RING OR WRITE TO

# **Sanglers**

AT: —

**258 EUSTON ROAD, LONDON, N.W.1**

*Telephone: EUSton 5010*

**NEWCASTLE**

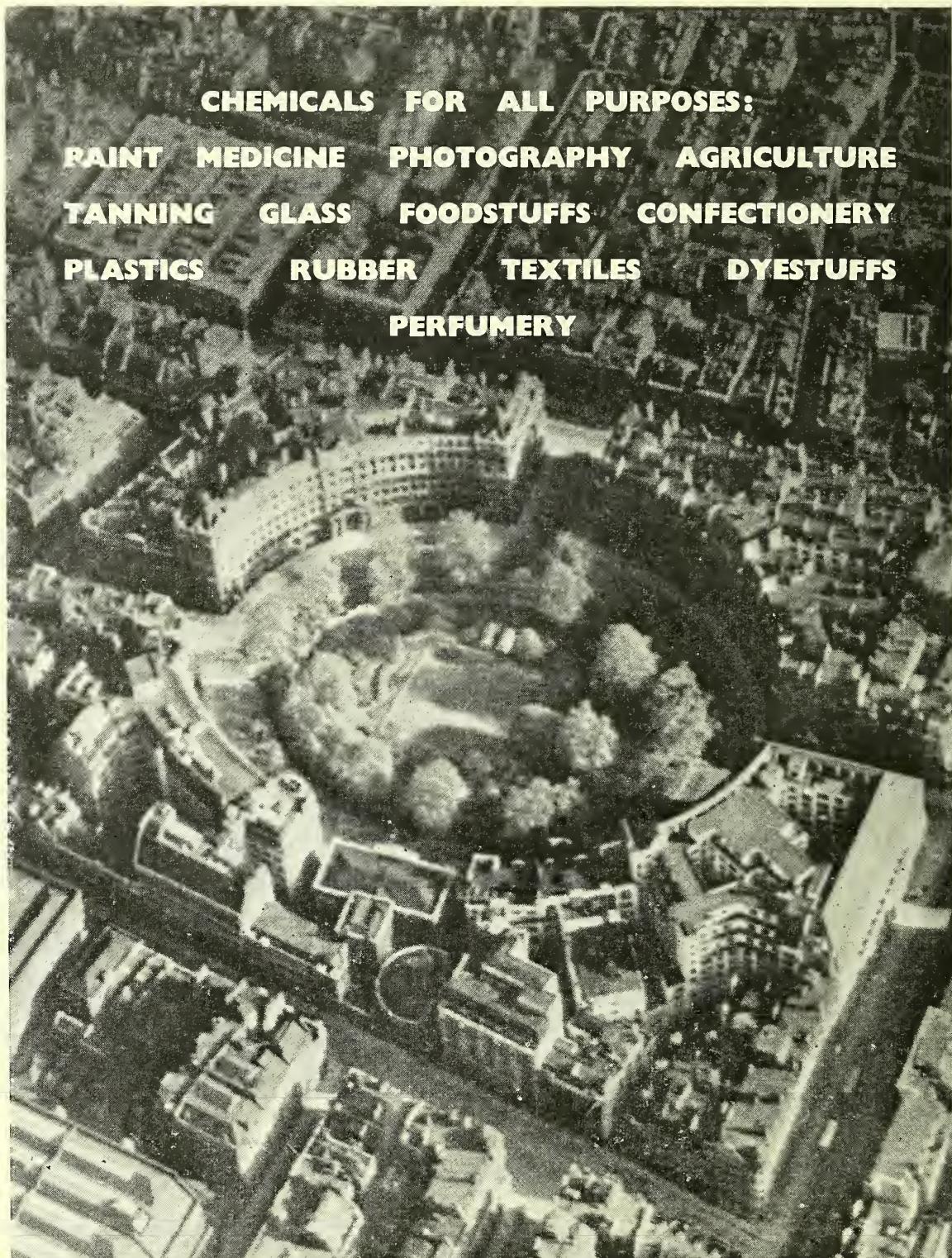
**46-50 ELSWICK ROAD**

*Telephone: Newcastle 34221*

**BRISTOL**

**45 WILDER STREET**

*Telephone: Bristol 24551*



**CHEMICALS FOR ALL PURPOSES:**

**PAINT MEDICINE PHOTOGRAPHY AGRICULTURE**

**TANNING GLASS FOODSTUFFS CONFECTIONERY**

**PLASTICS RUBBER TEXTILES DYESTUFFS**

**PERFUMERY**

**R. W. GREEFF & CO. LTD. 12 FINSBURY CIRCUS**

TELEPHONE :

LONDON WALL 5241. (8 LINES)

**LONDON, E.C.2**

TELEGRAMS :

GREEFF, AVE., LONDON

# ANNOUNCEMENT

*Re-introduction of the popular*

**CROOKES**

# Lacto-Calamine

**HANDBAG PACK**

Responding to a wide public demand we have re-introduced the 1 oz. Lacto-Calamine Lotion at the slightly increased retail price of 1/10d. (1/2d. plus 8d. P.T.).

The two original Bonus Parcels are again offered as from that date.

*Parcel LC(S)*

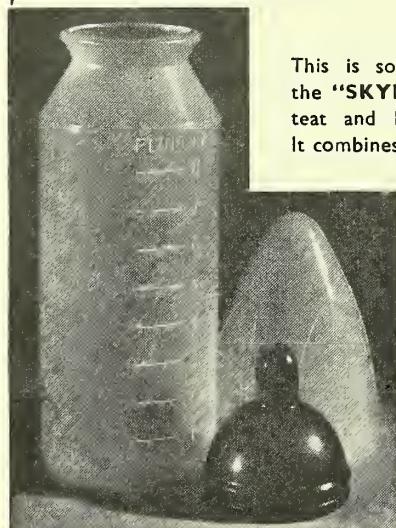
24 x 1 oz. bottles (plus 2 bonus)	at 1/2d. each, less 25%	18s. 11d.
and 10% ... ... ... ... ...	... ... ...	17s. 1d.
Purchase tax at 75% on 26 bottles		Nett £1 16s. 0d.

*Parcel LC(L)*

72 x 1 oz. bottles (plus 12 bonus)	at 1/2 each, less 25%	£2 16s. 8d.
and 10% ... ... ... ... ...	... ... ...	£2 15s. 3d.
Purchase tax at 75% on 84 bottles		Nett £5 11s. 11d.

Every Wednesday and Friday from 10—10.15 p.m. the Lacto-Calamine and Crookes Hand Cream Radio Luxembourg programme "Dreamtime" sells to an average audience of 4 million listeners.

## DUAL PURPOSE FEEDER



Manufactured by

### FIBRENYLE LTD.



Regd. Trade Mark

This is sold complete with the "SKYLON" brand valve teat and NO-GERM CAP. It combines all the benefits of a feeding bottle with the advantages of a food measure. Additionally the wide neck permits of easier filling, and the large teat allows the nearest approach to natural feeding

## "SKYLON" POLYTHENE FEEDING BOTTLE

PATA

The new modern lightweight feeding bottle that no mother should be without. Indispensable at all times. Made of Pure Polythene. Safe and

- UNBREAKABLE
- HYGIENIC
- TASTELESS
- ODOURLESS

UNAFFECTED BY FOODSTUFFS  
All standard teats fit neck. Will keep contents warm longer than any glass bottle

Obtainable from your  
usual Wholesaler

157 DUKES RD., LONDON, W.3  
TELEPHONE : ACORN 5073



## Aspirin therapy with a difference

# Better toleration in larger doses over longer periods

## DISPRIN

REGD.

*Provides stable, soluble,  
palatable calcium aspirin.*

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**NEW**

"Ascorbic acid, 200 mg. at night or on waking has been found valuable in combating the hang-over effects of barbiturates."

(PROC. ROY. SOC. MED., 1954 (MAR.), 47, 215).

*SCORBITAL TABLETS* contain Phenobarbitone 16 mg. (gr.  $\frac{1}{4}$ ) Ascorbic Acid 100 mg.

# PHENOBARBITONE +

Scorbal is particularly useful for patients who need to take phenobarbitone at night, especially over prolonged periods. The risk of an accumulation of hang-over effects is eliminated if Scorbal is prescribed instead of phenobarbitone.

SBL/T/541

THE BRITISH DRUG HOUSES LTD. LONDON N. 1

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*From the Carnegie Range of Fine Chemicals*

ADRENALINE B.P.

CARNEGIES OF WELWYN LTD

Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'

Telephone: WELWYN GARDEN 5001

(6 lines)

**A double chance for MORE PROFIT**



**WE OFFER** to Retail Chemists  
a free packet with every dozen  
ordered for delivery in **SEPTEMBER**

You can order either Moorlands or Penetrol or both. Big  
space advertising will reinforce the regular Moorland  
Advertising, and attractive display material will be supplied.  
Penetrol will be powerfully advertised from October to April.

**Display Bonus  
on  
MOORLAND  
INDIGESTION TABLETS  
and a  
Stocking  
PRE-SEASONAL BONUS  
on  
PENETROL  
BRAND PRODUCTS**

**MOORLAND  
Special  
ASSORTED  
PARCELS**

2 doz. 1/- size at 6/10 doz. and a minimum order of 2 doz. 1/11 size at 13/6 doz.  
6 doz. 1/- size at 6/8 doz. and a minimum order of 2 doz. 1/11 size at 13/- doz.  
6 doz. 1/11 size at 13/- doz. and a minimum order of 3 doz. 1/- size at 6/8 doz.  
12 doz. 1/- size at 6/5 doz. and a minimum order of 4 doz. 1/11 size at 12/6 doz.  
12 doz. 1/11 size at 12/6 doz. and a minimum order of 6 doz. 1/- size at 6/5 doz.  
Purchase Tax is chargeable at 25 per cent. on dozen rates at 7/2 and 14/-. Carriage  
paid on all orders of £2 or over. All cases free.

**PENETROL  
TRADE  
TERMS**

	1 doz.	3 doz.	Retail inc. P.T.
Penetrol Brand Inhalant (Small).....	19/6	18/9	2/8
Penetrol Brand Inhalant (Large).....	32/-	30/6	4/-
Penetrol Brand Inhaler .....	13/3	12/9	1/11
Penetrol Brand Drops.....	13/9	12/9	1/11
Penetrol Brand Tablets, 15's.....	11/-	10/10	1/6
Penetrol Brand Tablets, 50's.....	26/-	—	3/10
Penetrol Pastilles.....	12/6	12/3	1/9
Penetrol Quick Rub, 1 oz.....	11/3	10/10	1/7

3 dozen assorted at 3 dozen rates where applicable. Purchase Tax payable on Standard 1  
dozen rate at 25%. Carriage paid on orders of £2 and over. All cases free.

Supported by

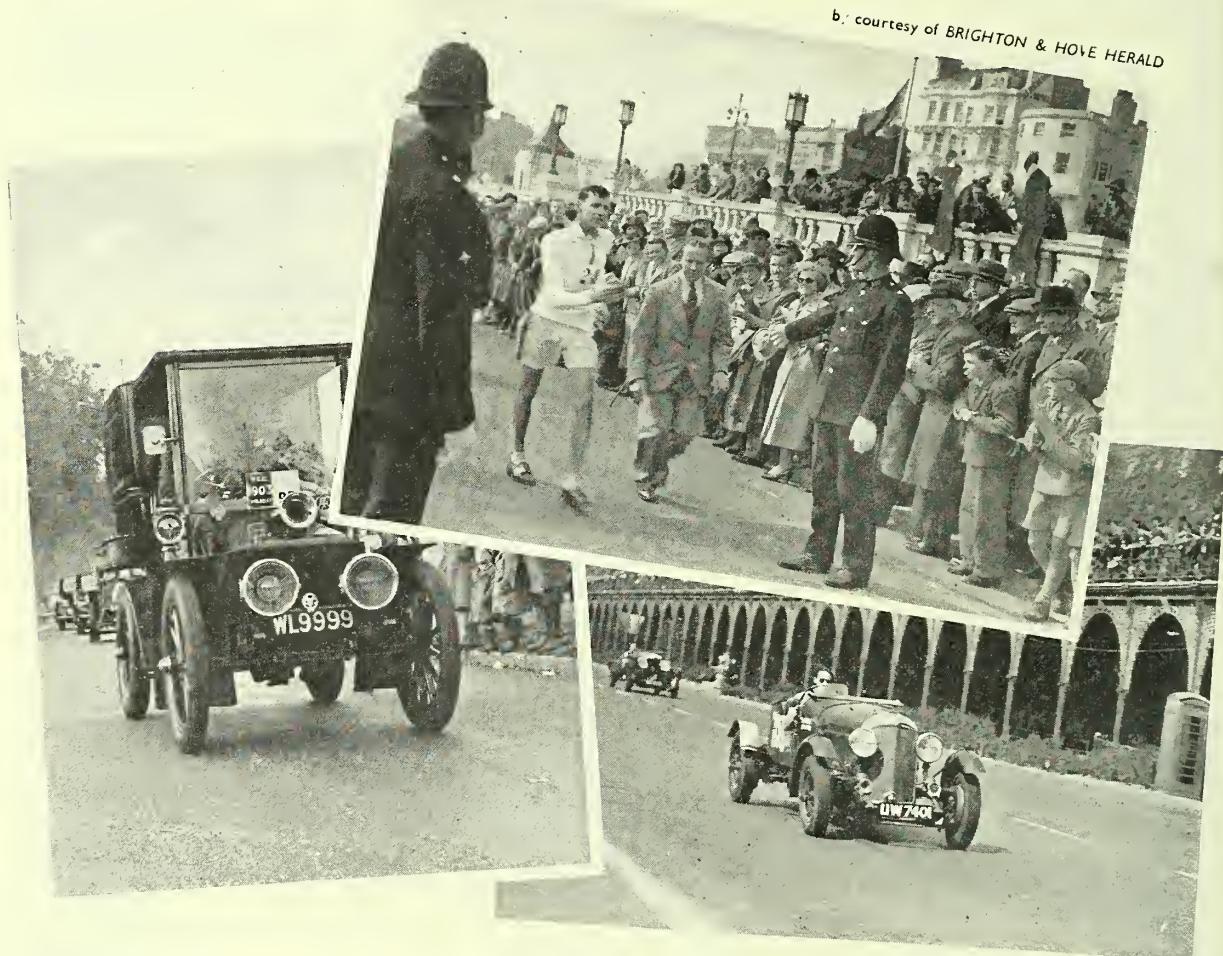
**POWERFUL ADVERTISING  
in National and Provincial  
Newspapers and Periodicals**

**W. B. CARTWRIGHT Ltd.  
Manufacturing Chemists  
RAWDON LEEDS**

No. 6 of a Series

PRESENTED BY ARTHUR H. COX &amp; CO. LTD

Photo



*“Dr. Brighton” prescribes . . .*

Since the Regency days Brighton has become the mecca of those seeking health and recreation. People from all parts of the civilised world have visited it at one time or another, and it is consistently revisited, so attractive are its characteristics.

This desire to reach Brighton reveals itself in many ways. Athletes, walking and running, motoring enthusiasts driving vintage cars, racing motorists, and smartly timed trains with business men and those on vacation, all come to Brighton for enjoyment and the rare qualities in its tonic air.

Since 1839, it has been the mecca of discriminating doctors and pharmacists who seek all that is best in medicinal and pharmaceutical products. Here at the House of Arthur H. Cox & Company Ltd., can be found a rare quality of another kind — efficacy with elegance. Over a century of manufacturing knowledge and experience have invested these products with the reliability which the unification of therapeutic action and excellence of craftsmanship achieve.



Regd. Trade Mark

**ARTHUR H. COX & CO. LTD**  
*Manufacturing Chemists since 1839*

BRIGHTON 7

IN PHARMACEUTICAL  
Established

# KIRBY

1866

CIRCLES

Are recognised as pre-eminent in  
the manufacture of

# TABLETS

ALSO

PILLS · CAPSULES · PESSARIES · SUPPOSITORIES  
PENICILLIN PRODUCTS · OINTMENTS FOR THE EYE  
SOFT GLYCERINE LOZENGES · PACKED PHARMACEUTICALS  
STERILE PRODUCTS

*Own materials processed* • *Special Formulae prepared*

HOME AND EXPORT ENQUIRIES INVITED

Price List forwarded on application to :—

**H. & T. KIRBY & Co. Ltd.**

Manufacturing Chemists, WILLESDEN GREEN, LONDON, N.W.2

Phone: Willesden 1146 · Telegrams: Kirbilim, Norphone, London · Code: Bentleys (2)



## New Beauty-Boxe

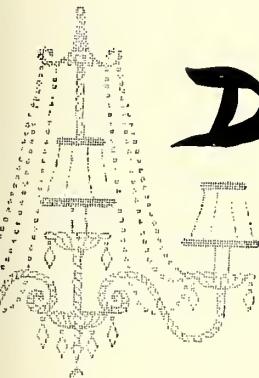
DEARBORN ANNOUNCES IN VOGUE . . . co-new beauty boxes. Each one containing a combination of Mercolized Preparations. 9/-, 11/6, 12/6, 13/-, 15/-. Theme of the aing: "A GIFT TO ENVY . . . THE MERCOLIZED BY DEARBORN".

DEARBORN MERCHANTISES THROUGH VOGUE. Vogue's co-operation producing new colour cards, new display material. To be even more tive, more successful than the June promo

DEARBORN ADVERTISES IN COLOUR PAGES . . advertising made news, brought sales, continuing demand. Now three pages in C—two in full colour. Again—superb photog Again—a commanding position in the ma Our representatives will gladly show you a proofs. First day of sale of October V September 24th.

DEARBORN BECOMES A FAVOURITE . . through influence of this summer's promotion the tried Mercolized Preparations for the fir then bought again. October advertising v Dearborn sales take a new bound forward, join in the promotion will bring you a good

# the Mercolized Look in 'Vogue'.



**Dearborn** sets the advertising . . . to work for you

\* The following free display material will, on request, be despatched to you immediately.

\* For your windows and counters a compact and well-built display-stand allows you to tilt and show a beauty-box to its best advantage.

\* Superb full-colour mounted reprints of the Vogue advertisement ("As seen in Vogue"). To remind your customers of what they have seen in Vogue: to complete the sale in your shop. Display these cards to time with the October advertising, and to carry through the "gift" theme to Christmas buying.

\* 12-page two-colour booklets "This way to Loveliness" for your counters.

\* 4-page leaflets announcing the newest Dearborn lines—Mercolized Skin Soap, Mercolized Skin Cleanser, Dearborn Lipstick. (Also Colliandum—a most unusual powder rouge—and Stallax Pure Soap Shampoo in packet form. New lines which are selling well).

See the colour advertising in October Vogue by **Dearborn**



# *A Comprehensive Range*



## **MORPANS CH & CHS (CETRIMIDE BP)**

Powerful Quaternary. Bactericides for Antiseptic Cleansing.

## **TEXOFOR A1P (CETOMACROGOL 1000)**

Non-Ionic Emulsifier and Dispersant.

## **COLLONE NI (CETOMACROGOL WAX)**

Non-Ionic Emulsifying Wax for inert emulsions, resistant to extreme pH values, hydrolytic agents and high salt concentrations.

## **COLLONE AC**

Non-Ionic Emulsifying Wax especially valuable for hydrocarbon emulsification ranging from light oils to high melting paraffins.

Hydrophilic base Pharmaceutical and Cosmetic preparations.

## **COLLONE SE**

Anionic Emulsifying Wax for producing emulsions exceptionally stable to temperature changes and giving high viscosities at low concentrations.

## **COLLONE HV**

Anionic Emulsifying Wax Base for the Cosmetic Industry.

**GLOVERS (CHEMICALS) LTD.**

WORTLEY LOW MILLS, WORTLEY, LEEDS 12. Tel: Leeds 38037. Grams: "Glovers, Wortley, Leeds."



**To introduce the new**

**CHOCOLATE-FLAVOURED  
BEMAX**

**2**

from 1st Sept. to 16th October we offer  
kinds of **BEMAX** and  
**A BIG BONUS**

The introduction of a Chocolate-Flavoured Bemax marks a great occasion. The need for—and the popularity of—this product has been proved by, firstly, a national survey and, secondly, by widespread sampling tests. Nutritionally, both Plain Bemax and the new Chocolate-Flavoured are the same. The demand is there and will certainly prove to be the starting point for immensely increased sales.

Chocolate-Flavoured Bemax is being launched with large-scale advertising . . . in Radio Times, the national and provincial press and women's magazines. Specially attractive display material has been prepared for you . . . as explained in the Bonus announcement already posted to you along with a **Free pack** of the new product.



BEMAX PARCELS		STANDARD LIST PRICE	QUANTITY TERMS	★ <b>SPECIAL BONUS DISCOUNT</b> equivalent to <b>13 to the dozen</b> DEDUCTED FROM INVOICE	BONUS TERMS	PROFIT
<b>BX.1</b>	3 dozen x 3/- size	85/6	81/9		75/-	33/-
<b>BX.2</b>	1 dozen x 5/6 size 1 dozen x 3/- size	81/-	77/3		70/10	31/2
<b>BX.3</b>	2 dozen x 3/- size ½ dozen x 5/6 size	83/3	79/6		72/11	32/1
<b>BX.4</b>	1 dozen x 1/9 size 1½ dozen x 3/- size ½ dozen x 5/6 size	85/6	81/11		75/-	33/-

★ The above Bonus discount is additional to the existing trade discount, as well as the discount allowed on quantity orders.

**Chocolate-Flavoured Bemax is available in the 3/- size only.**

† All despatches of the 3/- size Bemax made under this offer will include 4 packets of the Chocolate-Flavoured Bemax in each dozen ordered.

If you have not yet received details of the

Bonus Offer write at once for full particulars to **VITAMINS LTD. (DEPT. AAI)**, 23 UPPER MALL, LONDON, W.6

**Reminder!**

Send in the order form (already posted to you) between Sept. 1 and Oct. 16th. Use the display material sent with goods for your Window and Counter for at least 14 days during the Bonus period. But remember, too,

*it always pays to display BEMAX*

MANESTY

ANNOUNCING THE NEW MANESTY

**DRYCOTA**COMBINED TABLET MAKING AND  
COMPRESSION COATING MACHINE

The "Drycota" produces coated tablets in a fraction of a second without the use of skilled operators. Materials affected by moisture can now be coated by this dry method and more control over disintegration can be made. Coloured tablets, with or without engraving or embossing can be produced in record time. No extra polishing process is required.

*Sample Tablets and Specification on request.***MANESTY MACHINES LIMITED**

DEPT. 5 · SPEKE · LIVERPOOL, 19

Phone: Hunts Cross 1972.

Grams: Manesty, Liverpool, 19

TABLET MACHINES · MIXERS · GRANULATORS · COATING PANS · AUTOMATIC WATER STILLS

*The Best costs no more!*when ordering ZINC OXIDE  
insist on —**FELLING**  
ZINC OXIDE B.P.  
**FELLING**AND GET THE  
*Highest Standard of Purity*WHOLESAVERS ONLY SUPPLIED  
ENGLISH MANUFACTURE  
USED THROUGHOUT THE WORLDGuaranteed free from lead and arsenic. Its manufacture is  
supervised throughout by qualified chemists. Each particle  
size will pass 240 mesh with less than 0.1% residue.

We supply most Wholesalers, but should you have difficulty please contact

**H. LATTIMER**22 UPPER GROUND,  
BLACKFRIARS, LONDON SE1

Telephone: WATERLOO 5800

Manufactured by THE FELLING ZINC OXIDE COMPANY

**TRYPTAR**PURIFIED CRYSTALLINE TRYPSIN.  
FOR PHYSIOLOGIC DEBRIDEMENT OF  
NECROTIC TISSUE AND INTRAPLEURAL USE.**TRYPTAR AEROSOL**FOR BRONCHIAL ASTHMA, ACUTE AND  
CHRONIC BRONCHITIS, BRONCHIECTASIS  
AND ATELECTASIS.

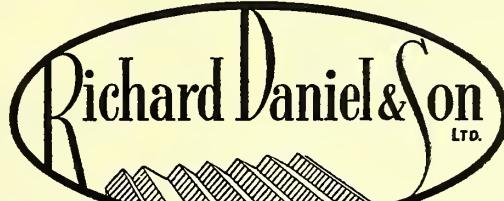
AVAILABLE TO HOSPITALS ONLY.

Write for Literature to:  
**THE ARMOUR LABORATORIES**  
(ARMOUR & COMPANY LTD.)

HAMPDEN PARK, EASTBOURNE, SUSSEX

Telephone: Hampden Park 740  
Telegrams: "Armolab" Eastbourne

FOR CHEMISTS



DRUGS

SUNDRIES

*Manufacturing Chemists*

**PILLS • TABLETS  
PROPRIETARIES**

HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines)  
BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)

## SILCOT — *the towel they ask for "again and again"*

Just ask those who sell Silcot! It's a fine quality cotton wool towel which not only sells again and again to satisfied users but can bring you extra discount, too. Read what retailers are saying about Silcot, and about the *extra discounts* they are getting under the Silcot Discount Plan:

### GOOD QUALITY GOODS

"The credit note you sent is much appreciated. If a customer buys Silcot she invariably asks for them again and again. Good quality goods are the best advertisement."

Sherwood, Nottingham, 1st July.

### NO SUBSTITUTES

"Your credit note for £2 0s. 10d. to hand . . . As one of your oldest customers in Northern Ireland we have no trouble in pushing Silcot towels. All our customers ask for them by name, and will have no substitutes."

Newtownards, Northern Ireland, 6th July

### "SO NICE AND SOFT"

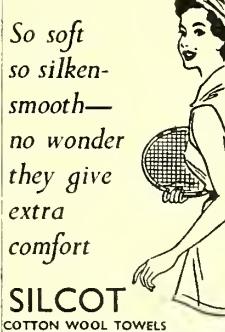
"Thank you very much for your credit note for £3 16s. 3d., being extra discount for the past six months under the Discount Plan. I must say I have no trouble whatever in selling Silcot towels; they are so nice and soft."

Dungannon, Northern Ireland, 7th July.

### ACCENT ON SILCOT

"We thank you for extra discount . . . we can assure you the accent is on Silcot as far as we can make it so."

Southall, Middlesex, 29th May.



Millions of women read the Silcot advertisements every month in the leading magazines.

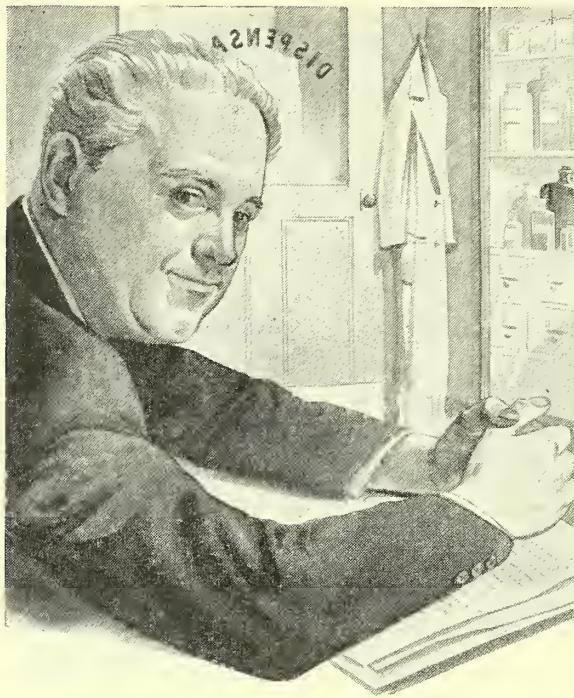
### TWO SILCOT EXTRAS

*EXTRA  
COMFORT FOR THE  
USER*

*EXTRA  
PROFIT FOR THE  
RETAILER*

**SILCOT**

COTTON WOOL TOWELS



**"this big new  
DALMAS campaign  
will mean bigger  
sales for me..."**

Regular, forceful advertising will bring the advantages of DALMAS PLASTER home to millions of potential customers every week. Advertisements will appear in the popular and women's magazines—"Picture Post," "Illustrated," "John Bull," "Family Doctor," "Woman," "Woman's Own," "Woman's Weekly," "Woman and Home," "Housewife," "Nursery World," "Wife and Home" and many others.

**so I'm stocking up  
NOW with  
DALMAS  
PLASTER  
WATERPROOF  
FIRST-AID DRESSINGS**

DALMAS LTD., LEICESTER AND LONDON. ESTD. 1823

For acidosis...  
recommend

*Rayner's*  
**Lembar**

all the year  
hot or cold



*Lemons*  
*Glucose*  
*Scotch Barley*  
*Sugar*

MADE BY RAYNER AND COMPANY LIMITED, LONDON, N.18



A GOOD PRODUCT  
that is  
REGULARLY ADVERTISED  
and brings you  
REPEAT SALES.

*Dirty Paws* is now known as



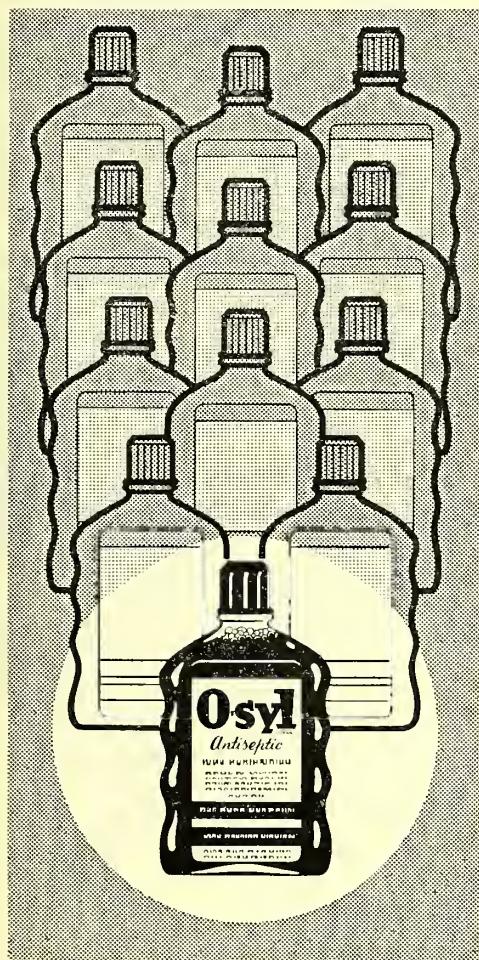
*Non-Gritty Hand Cleanser*

KAY BROTHERS LIMITED, STOCKPORT

# 50% PROFIT ON



**IF YOU ORDER NOW**



**ONE FREE BOTTLE IN EVERY DOZEN 10d. SIZE**  
(minimum order 3 dozen)

Cash in on this generous O-syl offer. By stocking up now for autumn and winter selling you can make yourself 50% profit on every 10d bottle. Every order for 3 dozen bottles of the 10d size O-syl brings you 3 free bottles. You get 36 but only pay for 33! And there's no limit to the number you may order. So order all you can now and make the most of this offer while it lasts. It will bring you the extra profits you are looking for.

#### **NEW ADVERTISING PLANS FOR O-SYL**

To support your selling efforts, a new series of advertisements is now appearing selling O-syl as the dual-purpose antiseptic/disinfectant. These advertisements are appearing in a group of magazines specially selected because they are exclusively read by health-conscious women. They will continue throughout the year. If you make a point of arranging attractive displays of O-syl in your window and on your counter to tie-in with the advertising, it is sure to stimulate your O-syl sales. So order now for that 50% profit margin.

**O-syl**  
REGD.  
*THE DUAL-PURPOSE  
ANTISEPTIC/DISINFECTANT*

Gentle to skin—Deadly to germs

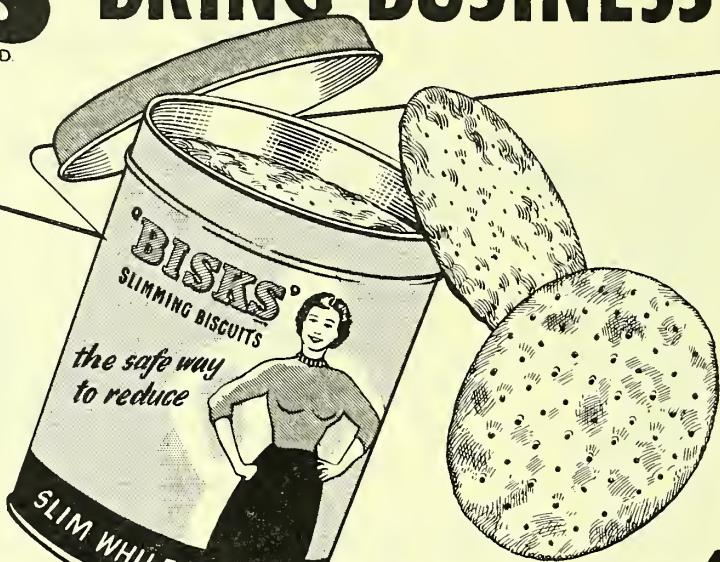
LEHN AND FINK PRODUCTS LIMITED, RAYNES PARK, LONDON, S.W.20

# BISKS BRING BUSINESS

REGD.

Yes, the public have realised that BISKS certainly do make it easy to lose unwanted fat. There is now no need for the discomfort of drastic dieting, exercises or drugs. Just eat BISKS and 'Square' meals. Your customers will thank you for making it so easy for them to slim.

If you have not yet got a stock of these biscuits, don't miss your chance of real business, stock up NOW. BISKS are being advertised in selected evening newspapers, and display material is available on request. BISKS retail at 4/6 and 8/6.



-SO STOCK UP **NOW!**

ANDOMIA PRODUCTS LTD

GRANT STREET

BRADFORD, 3

## WHY LOSE EXTRA PROFIT! ... "CASH IN" ON THE EVER INCREASING DEMAND FOR

*Evan Williams*

NATIONALLY ADVERTISED  
LANOLIN SHAMPOOS

LIQUID

POWDER

Liquid Lanolin Sachets, retailing at 6d. per packet. Supplied in an attention commanding display outer holding 3 dozen sachets. 42/- per gross (P.T. 10/6). Also in bottles retailing at 1/6 each. 10/4 per dozen (P.T. 2/7).

Pack and display outer attractively printed in bright pleasant colours. Retailing at 4½d. per packet. 32/- per gross (P.T. 8/-).

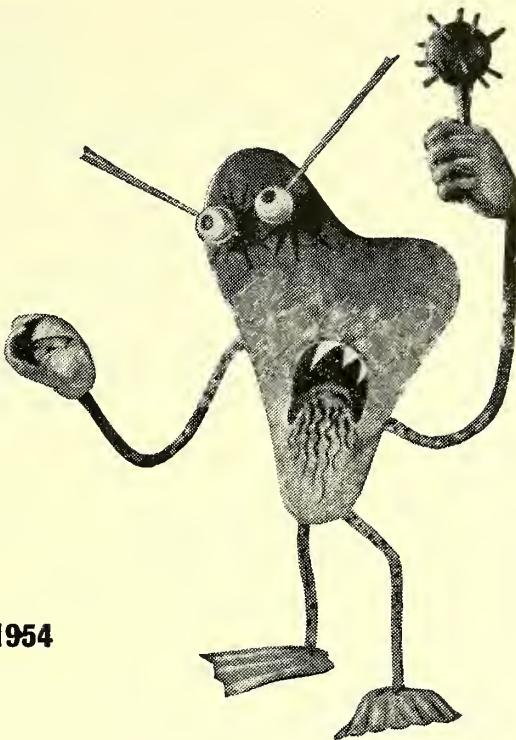
ORDER THESE  
BEST SELLERS—**NOW!**

EVAN WILLIAMS CO. LIMITED, Sales Dept., Aintree Road, Perivale, Middlesex





*To take effect from 29th August 1954*



### **Filmtab\* ERYTHROCIN Stearate tablets**

ERYTHROCIN (Erythromycin, Abbott) is now supplied as the Stearate Salt, in film-sealed—not enteric-coated—tablets. Abbott's new *Filmtab* ERYTHROCIN Stearate provides faster absorption, earlier blood levels. The *Filmtab* (marketed only by Abbott) disintegrates far faster than enteric coatings and permits almost immediate drug absorption. Because of the swift absorption high blood concentrations of ERYTHROCIN are reached *within 2 hours*. Peak level is reached at 4 hours, with significant concentrations for 8 hours.

\* (Trade Mark for Abbott's film-sealed tablets, patent applied for)

### **200 mg. tablets now available**

Average adult dose of ERYTHROCIN Stearate is 200 mg. every four to six hours. To facilitate administration *Filmtab* ERYTHROCIN Stearate is now available in 200 mg. as well as 100 mg. tablets, packed in bottles of 25 and 100.

### **20% reduced prices (effective from 29th August 1954)**

The price of the new *Filmtab* ERYTHROCIN Stearate is 20% cheaper than the price previously charged for the old enteric coated tablets. A 20% reduction in the price of ready-mixed ERYTHROCIN Stearate Oral Suspension, which children find so palatable, also becomes effective on the same date.

(Wholesale and retail claims in respect of Shelf Stock should be made immediately)

# **ERYTHROCIN** Stearate

(ERYTHROMYCIN STEARATE, ABBOTT)

NOW IS THE  
TIME TO STOCK **MURINE-**

THE WORLD'S LARGEST-SELLING  
EYE PREPARATION

ADVERTISEMENTS  
LIKE THIS ARE BEING  
SEEN BY MILLIONS  
IN THE NATIONAL  
DAILY AND  
SUNDAY PRESS

Tired Eyes?

2 SOOTHING DROPS -  
relief in a wink!

Everyone gets tired eyes now and then. Next time you feel you want to rub your eyes, treat each of them to two drops of Murine instead. So simple; so safe; so soothing. Murine is the modern hygienic way to bring quick relief to tired eyes. Gentle as a tear, it contains 7 scientifically tested ingredients and blends perfectly with the natural eye fluids. It makes your eyes feel good.

Murine is so economical. Each bottle (complete with dropper) holds 240 drops. Ask your chemist for a bottle today, and give your eyes their daily drops of gentle, cleansing Murine.

**MURINE** 3'10

THE WORLD'S LARGEST-SELLING EYE PREPARATION

**MURINE** the new, hygienic way to relieve tired eyes

Murine is an isotonic collyrium — with the same surface tension as the natural eye fluid. It actually complements the antiseptic secretions of the eye itself. 2 drops — quick relief. Just 2 drops of Murine in each eye gently wash away dust, dirt and other irritants. Murine is simple to use, safe to use, pleasant to use.

Each bottle of Murine holds 240 drops and retails at 3/10 (complete with dropper in a sealed envelope) ORDER NOW FROM YOUR USUAL WHOLE-SALER AND TAKE FULL ADVANTAGE OF THE NATION-WIDE ADVERTISING.



*Sole Distributors in the United Kingdom*

**A. J. WHITE, LIMITED**

COLDHARBOUR LANE · LONDON · S.E.5



**Cold-pressed**  
**ALMOND OIL**  
AND  
**APRICOT KERNEL OIL**

Expressed at our Wharf Road works without the use of heat, these pure oils are the finest available and have for many years been specialities of the house.



May we send you  
Samples



**STAFFORD ALLEN & SONS LTD. Wharf Rd. London, N.1 CLErkenwell 1000**

TAS/AL438

D

# Potter's

announce a  
**BONUS PARCEL** scheme  
 for **POTTER'S PASTILLES**  
 that will earn you

OVER

**50%**

**GROSS PROFIT ON COST**

From now on  
and until  
**NOV 30**

In response to many enquiries from the Trade, a new BONUS PARCEL SCHEME for Potter's Pastilles is introduced. It is in operation now and will apply until NOVEMBER 30th.

Each parcel will consist of a minimum of 3 dozen tins of pastilles. Orders on bonus terms may consist of all Catarrh Pastilles, or all Crystallised Pastilles, or a mixture of both in whatever quantities you want.

The BONUS is one free tin in each dozen. For a minimum parcel of 3 dozen, you will be invoiced for 33 tins. By referring to the figures on the right you will see how on this minimum quantity, a very satisfactory GROSS PROFIT of 50.8% will be shown. Compare this with the Government Census figure of 31% for all Chemists' trade. Campaign plans for the 1954/55 season include impressive National and Provincial Press advertising to give impetus to your Potter's sales. And remember, every tin of Potter's Pastilles you sell means EXTRA PROFIT. So take advantage of the new BONUS SCHEME and stock up NOW!

**NOTE NEW RETAIL PRICE—now 1/10**

...and here's the PROOF...

	s. d.
Total retail selling Price 3 doz. at 1/10 per tin	<b>66 . 0</b>
Cost of each 3 doz. bonus parcel to you (33 at 12/6 doz. trade price)	<b>34 . 4<math>\frac{1}{2}</math></b>
Plus purchase tax on 3 doz.	<b>9 . 4<math>\frac{1}{2}</math></b>
	<b>43 . 9</b>
Total gross profit	<b>22 . 3</b>

Showing percentage gross profit over original cost of

**50·8%**



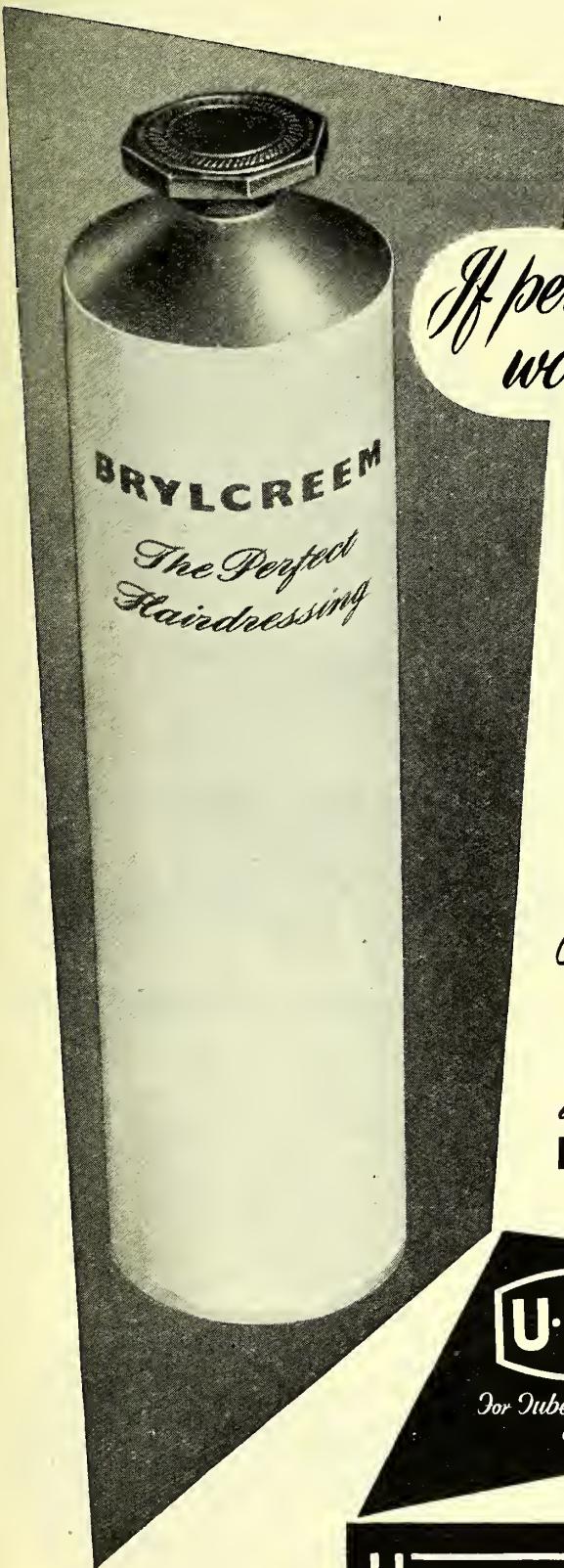
**Through wholesalers only please!**

**POTTER & CLARKE LIMITED**

RIVER ROAD · BARKING · ESSEX

Telephone: RIPPleway 3041

Telegrams: Horehound Phone London



If personal service and faultless workmanship are required

**U·M·P**  
is the answer

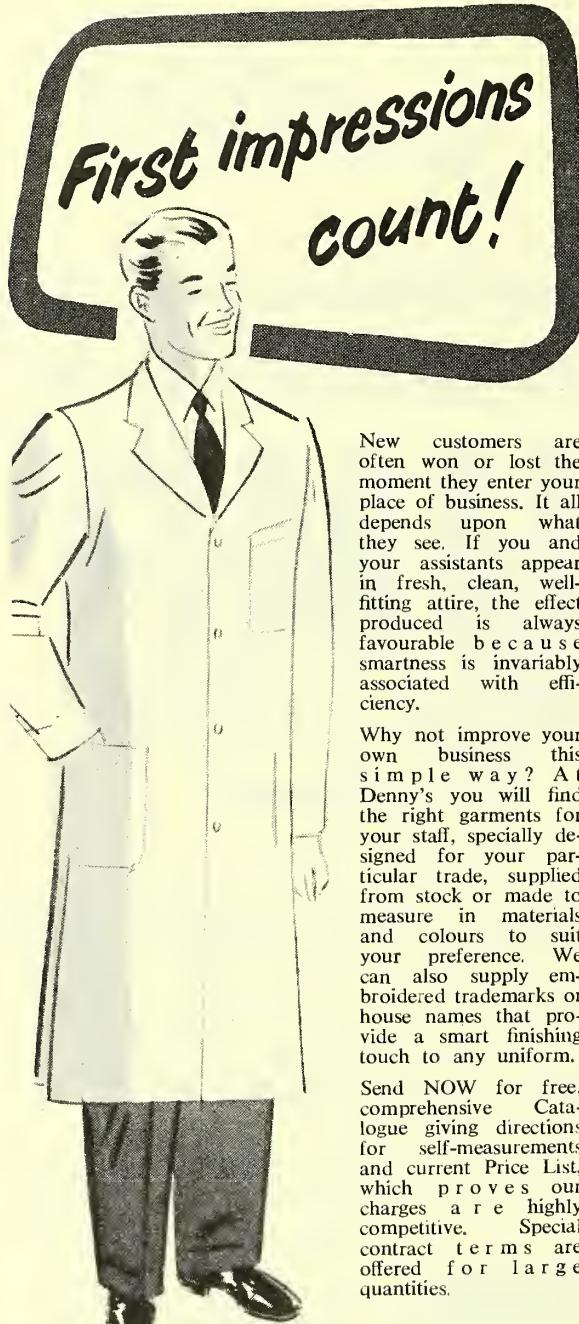
Have you contacted  
U·M·P PLASTICS for  
your requirements in  
MOULDED PLASTIC CONTAINERS ?



WHY NOT TRY THE  
U·M·P  
"THREE POINT"  
WADLESS CLOSURE ?

- NO WASHER IN CAP
- NO LOOSE CAPS AFTER FILLING
- A PERFECT CLOSURE

**UNIVERSAL METAL PRODUCTS LTD.**  
SALFORD 6 LANCs. Telephone PENDLETON 1631-2-3  
LONDON OFFICE: ARGYLE HOUSE, 29/31 EUSTON ROAD, N.W.1. TEL. TERMINUS 2073



New customers are often won or lost the moment they enter your place of business. It all depends upon what they see. If you and your assistants appear in fresh, clean, well-fitting attire, the effect produced is always favourable because smartness is invariably associated with efficiency.

Why not improve your own business this simple way? At Denny's you will find the right garments for your staff, specially designed for your particular trade, supplied from stock or made to measure in materials and colours to suit your preference. We can also supply embroidered trademarks or house names that provide a smart finishing touch to any uniform.

Send NOW for free, comprehensive Catalogue giving directions for self-measurements and current Price List, which proves our charges are highly competitive. Special contract terms are offered for large quantities.



**P. DENNY & CO. LTD.**

39 OLD COMPTON STREET, SOHO, LONDON, W.I  
Telephone: GERard 1654-55

## AMERICAN OIL of PEPPERMINT

THE  
H. G. HOTCHKISS  
ESSENTIAL OIL CO.

*Established 1839*

**LYONS, WAYNE COUNTY, N.Y.,  
U.S.A.**

*Standard for Quality  
for 115 Years*

*More and more people  
are changing to SELTO*

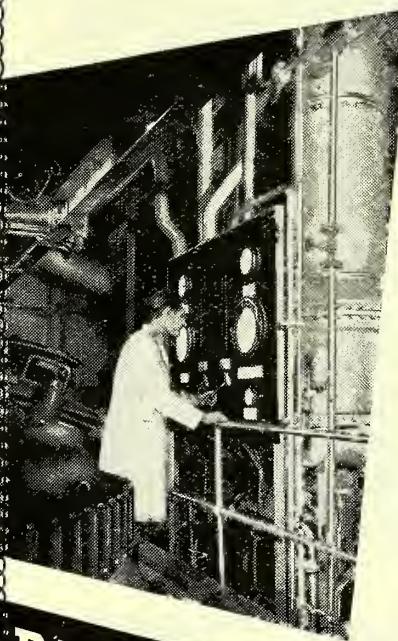
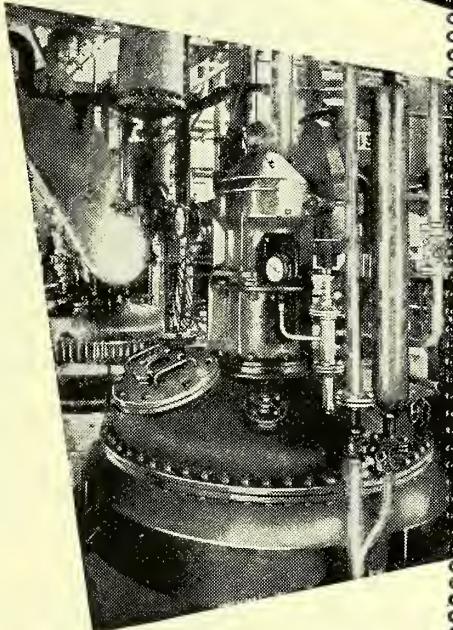
**SELTO SALES ARE SOARING!** Selto Dental Salt is a unique, well-balanced Dentifrice with a Sodium Chloride base, its value being professionally approved and recommended by Dentists everywhere. It is attractively packed in colourful plastic containers with refills available, or aluminium tins and obtainable from all leading wholesalers.



**SELTO**  
*Dental Salt*

**Selto (Eastbourne) Ltd., Hampden Park, Eastbourne**

LARGE-SCALE  
PRODUCTION OF



BARBITURATES

Scientifically controlled production in the latest type of plant enables GEIGY Barbiturates to be produced to exacting and invariable standards of quality. Continuous operation with the aid of constantly vigilant research and analytical laboratories provides Barbiturates by the ton in an ever expanding range.

Phenobarbitone B.P.

Barbitone B.P.

Butobarbitone B.P.C.

Amylobarbitone Sodium B.P.C.

Cyclobarbitone Calcium

Methylphenobarbitone B.P.

Phenobarbitone Sodium B.P.

Barbitone Sodium B.P.

Amylobarbitone B.P.C.

Cyclobarbitone B.P.C.

Hexobarbitone B.P.

Quinalbarbitone Sodium B.P.



PHARMACEUTICAL LABORATORIES GEIGY LTD.

Rhodes,

Middleton,

MANCHESTER.

F.C.16

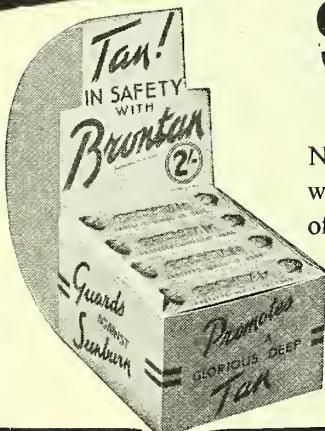
You'll be busy with

# BRONTAN

REGD. TRADE MARK

## SUN-TAN CREAM

THIS SUMMER



NON-GREASY BRONTAN tans fast and sells fast, and each tube will show YOU a healthy profit. Now's the time to order for your share of this brisk business which will be continual throughout the summer.

Trade Price 10/3 per dozen      Retail 2/- per tube  
(P. Tax 7/8 $\frac{1}{4}$ )      (inc. Tax)

Bonus for display, 13 to the dozen on parcels of not less than 3 dozen

JOHN BELL, HILLS & LUCAS LTD., OXFORD WORKS, WORSLEY BRIDGE RD., S.E.26

EXTENSIVE ADVERTISING CREATES DEMAND

for

**HERBALENE**

A safe herbal laxative. Packed—

Retail P.T. inc.	Trade per doz
1 oz. 3 drms.	1/6
2 $\frac{1}{2}$ ozs. . .	2/4
5 ozs. . .	3/6

**LUSTY'S HERBALENE**  
THE SAFE TONIC LAXATIVE  
CITY Brand

**GARLIC PERLES**

GARLIC PERLES

	Retail P.T. inc.	Trade per doz.
30 Perles	3/4	23/-
96 Perles	9/6	66/-
192 Perles	17/8	122/-

Purchase Tax 25%  
Orders of 40/- or Over Carriage  
paid direct or via wholesaler.

**LUSTY'S**  
NATURAL PRODUCTS CO.  
278/80 LONDON ROAD,  
WESTCLIFF-ON-SEA

This NEW habit is catching on! Are you cashing in?

## “KWICKDRY” HOUSEHOLD CREPE PAPER TOWELS

IN PERFORATED ROLLS  
FOR THE MODERN HOUSEWIFE  
THEY SAVE WORK  
and DRUDGERY and  
ARE STRONGER  
WHEN WET.

They serve a multitude of purposes. Of a soft, pleasing, crepe texture “KWICK-DRY” TOWELS are very absorbent, can be squeezed like a cloth yet do not disintegrate.

●  
FOR DRYING HANDS  
DRAINING FRIED FOOD  
CLEANING POTS & PANS, etc.

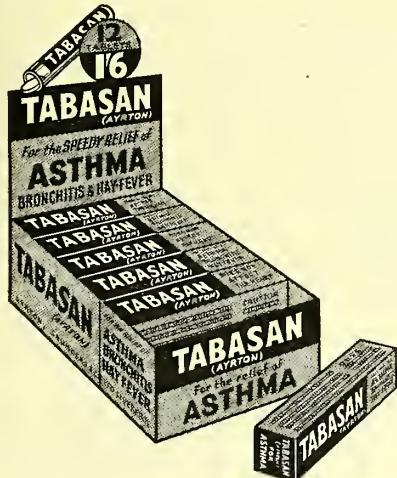
“THE TOWEL THAT REALLY DRIES—AS THE NAME IMPLIES”

Attractive Towel Holders available  
Samples and prices from the Paper Specialists:

**FREEDER BROTHERS PAPER MILLS**  
**BRIMSDOWN : ENFIELD : MIDDLESEX**  
Telephone: HOWard 1847 (5 lines).

<sup>1</sup>Grams: Sylkocrepe, Enfield





# Pocket Pack

12 Tablets 1/6

The new handy-size unit of Ayrton's TABASAN has proved instantly successful in all parts of the country.

9/- per dozen plus tax 25%

# TABASAN

for asthma

## Repeat Orders

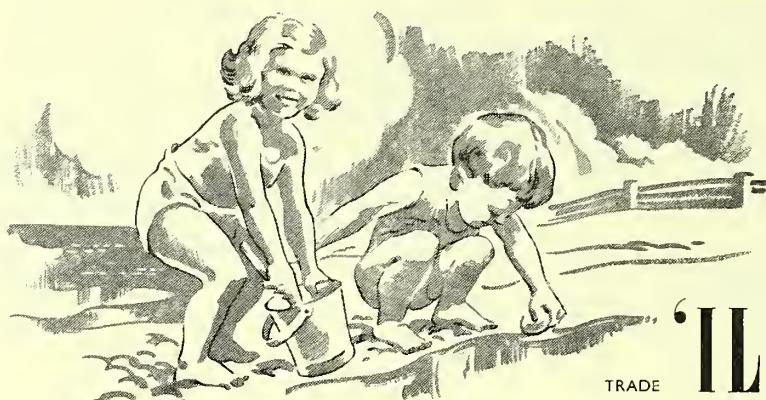
frequently call for a larger unit and the Bottle of 50 — 3/3 provides the answer.

In Display outers 20/9 per dozen  
plus tax 25%



**AYRTON SAUNDERS**  
& CO. LTD  
HANOVER STREET · LIVERPOOL  
Telephone Royal 8282

***Especially designed for CHILDREN***



TRADE **‘ILOTYCIN’** MARK

**Paediatric**

**FOR ORAL SUSPENSION**

Particularly effective against Staphylococci, Streptococci, and Pneumococci.

Causes no alteration in normal blood picture.

Dose  $\frac{1}{2}$ -teaspoonful per stone body-weight every 6 hours.

**THE SAFE SELECTIVE  
WIDE-RANGE ANTIBIOTIC  
FOR CHILDREN**

**Lilly** TRADE MARK

ELI LILLY & COMPANY LIMITED · BASINGSTOKE · HANTS

***The Originator of Erythromycin***

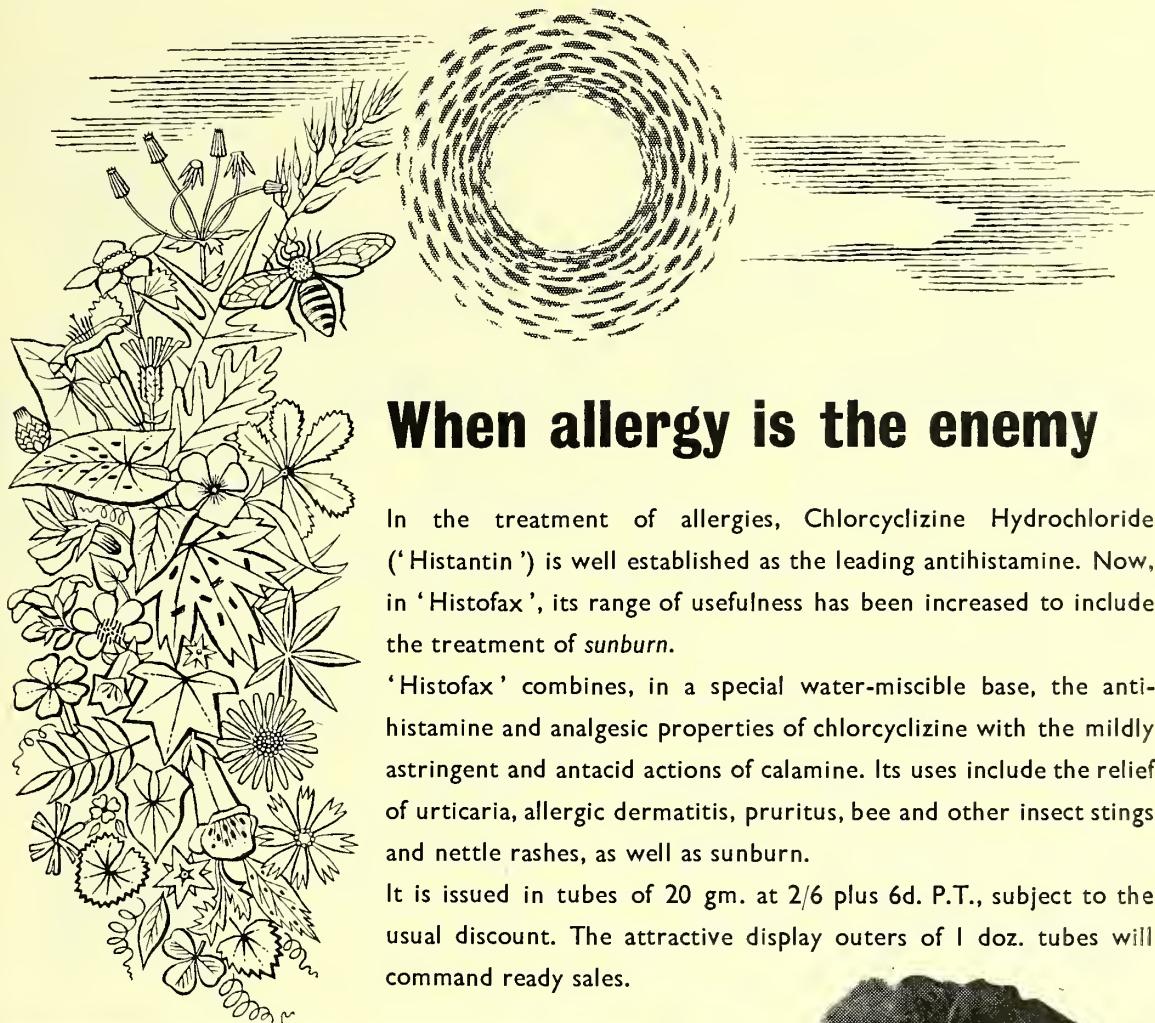
# *Skin Deep*

## **ATKINSONS OF OLD BOND STREET**

wish to announce that owing to an error, the prices quoted in their current Skin Deep advertising are incorrect. The current prices are :—

- ★ Skin Deep Foundation Cream, Jar 5/9d., tube 3/-
- ★ „ „ Nourishing Cream, Jar 6/3d.
- ★ „ „ Complexion Soap 2/3d.
- ★ „ „ Beauty Mask 3/6d.

**24 OLD BOND STREET, W.I.**



## When allergy is the enemy

In the treatment of allergies, Chlorcyclizine Hydrochloride ('Histantin') is well established as the leading antihistamine. Now, in 'Histofax', its range of usefulness has been increased to include the treatment of *sunburn*.

'Histofax' combines, in a special water-miscible base, the anti-histamine and analgesic properties of chlorcyclizine with the mildly astringent and antacid actions of calamine. Its uses include the relief of urticaria, allergic dermatitis, pruritus, bee and other insect stings and nettle rashes, as well as sunburn.

It is issued in tubes of 20 gm. at 2/6 plus 6d. P.T., subject to the usual discount. The attractive display outers of 1 doz. tubes will command ready sales.



**BURROUGHS WELLCOME & CO.**

(The Wellcome Foundation Ltd.)

LONDON



**This Special Bonus Offer  
is for orders received not  
later than September 30th.**

Now's the time to build up your stocks — on the most advantageous terms — in readiness for the extra demand that will inevitably follow the greatly extended **National Advertising**.

Leading National and Evening newspapers . . . WOMAN, with its 7,659,000 readership . . . London Transport vehicles . . . all will carry the compelling advertising for GALLOWAY'S—the tried and trusted remedy for all the family !

# POST NOW FOR SPECIAL BONUS OFFER

## **COUGH SYRUP**

..... doz. **1/-** Size @ **7/4** doz.  
 ..... „ **18<sub>2</sub><sup>1</sup>** „ @ **13/4** „  
 ..... „ **3/5** „ @ **26/8** „

## LUNG SYRUP

..... doz. 1/- Size @ 7/4 doz.

ALL SUBJECT TO 25% P. TAX

To : **P. H. GALLOWAY LTD. (Manufacturing Chemists)**  
**LONDON, S.E.17**

From :

NAME

(BLOCK LETTERS PLEASE)

**ADDRESS**

When did you last make broth for your baby?

When you're busy, it's hard to spare time to make the nourishing broths that you know your baby should have. But, fortunately, you can buy Heinz Bone and Vegetable Broth all ready made. And it is full of goodness. What's more, because it's ready in a moment you have time to give baby this nourishment often. Be wise—get some Heinz Strained Bone and Vegetable Broth for your baby to-day.

For a FREE book on baby feeding, write to Dept. X.25, H. J. Heinz Company Ltd., London, N.W.10.

**HEINZ Strained Foods**  
Meat Broths, Soups, Vegetables, Fruits, Cereal: Each 7½d.

# Advertising

## SELLS 17 VARIETIES

EVERY ADVERTISEMENT in Heinz great new campaign works hard for you.

Advertising consolidates *demand*. And demand means sales. Heinz new advertising continues to stress the theme of varied meals for babies, and more and more mothers are giving their babies early mixed diets.

New demand! Greater demand! Bigger and bigger sales! Mothers want all 17 varieties of Heinz Strained Foods. When they ask, can you supply the demand?

Watch the advertising. Watch your growing sales. Stock, display and *sell* Heinz Strained Foods.

H. J. HEINZ COMPANY LTD., HARLESDEN, LONDON, N.W.10



# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland*

Volume 162

August 28, 1954

No. 3888

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### EDITORIAL AND PUBLISHING OFFICES

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

Branch Offices:

BIRMINGHAM, 2: 111 New Street,

Phone: Midland 2921

GLASGOW: 24 Dixon Road, S.2. LEEDS, 16: 32 Wynford Rise,  
Phone: Pollock 4802 Phone: Leeds 78438

ANNUAL SUBSCRIPTION, which includes The Chemist and Druggist Diary and Year Book, £2. Single copies one shilling each.



# Endocil

THE HORMONE TOILET CREAM

FORMULATED BY SPECIALISTS —

NEITHER OESTROGENIC NOR ANDROGENIC

Exceptionally favourable  
trade terms whether  
direct or through  
wholesaler

Sold only through  
REGISTERED PHARMACIES

Launched only a month ago,  
repeat sales already very  
high

**ORGANON LABORATORIES LIMITED**

BRETTENHAM HOUSE, LANCASTER PLACE, LONDON, W.C.2

Telephone: TEMple Bar 6785, 0251/2.

Telegrams: Menformon, Rand, London

*The*  
**CHEMIST AND DRUGGIST**



Volume 162

AUGUST 28, 1954

No. 3888

## Ministry and Drug Profits THE TIMES SUPPORTS MANUFACTURERS

**THE TIMES** newspaper of August 25 calls for information on the "general principles" behind the discussions between the Ministry of Health and the pharmaceutical industry on the prices of drugs bought under the National Health Service. It suggests that it would be ironical if the introduction of the N.H.S. ended research by the industry.

The article points out that some familiar drugs are sold at extremely high prices, and that in principle the Ministry's attitude is not unreasonable. The article suggests, however, that what the Ministry proposes may be cumbersome. In the past, Government departments had bought on a large scale only in war-time. The precedents on which the Ministry of Health, the Auditor-General and parliamentary bodies like the Public Accounts Committee might rely almost all related to circumstances not parallel to those of the pharmaceutical industry today. Clearly many of those precedents were irrelevant. The N.H.S. did not provide for individual firms a steady business with no risk. In a generally expanding economy the artificial constriction of an industry which national finance policy might impose was a handicap. It was always worse for the more enterprising firms. The demand for new drugs was highly uncertain. The most rapid advances in pharmaceutical research had been made in countries such as the United States and Switzerland where profit rates were higher than in Britain.

A review of the same subject was published in *The Economist* of August 21. It mentions that the structure of the drug industry is so complex that a standard costing formula may be difficult to find. It points out that pharmaceutical production is highly speculative and that important drugs for rare diseases are not highly profitable because research and production costs are high. It suggests that the industry's case is weakened by the "excesses" of some of its members and the selling expenses of some of the companies that concentrate largely on wholesaling.

### POISONS LAW

#### List and rules amended

UNDER Orders (S.I. 1954, Nos. 1095 and 1096) made by the Home Secretary, on August 12 and coming into operation on September 16, the following changes are made in the Poisons List and in the Schedules to the Poisons Rules:—

Sulphotepp is added to the list of phosphorus compounds already included in Part II of the Poisons List and in Schedules I, III, V, VII and VIII and Rule 14 (2) (b) of the Poisons Rules. Laudexium and its salts are added to Part I of the Poisons List and Schedule I of the Poisons Rules.

Preparations for application in the nose and the eye and containing not more than 1 per cent. of anti-histamine substances are exempted from the provisions of the Pharmacy and Poisons Act and of the Poisons Rules.

Mipafox, when in the form of a cap on a stick or wire ceases to be subject to the restrictions applied to sales by listed sellers by Rule 14 (2) (b) of the Poisons Rules.

Advance notice of changes was made in July (see *C. & D.*, July 10, p. 25).

### LONDON CONGRESS Preliminary announcement

THE sixteenth general assembly of the International Pharmaceutical Federation is being held in London from

September 19 to 23, 1955, and it is expected that up to 1,200 delegates from forty countries will attend. The headquarters of the congress will be Senate House, University of London, and the opening and closing sessions of the meetings of the general assembly will be held in Friends House, Euston Road, London, N.W.1, where a simultaneous translation service for three languages will be provided. The Congress is being organised by a committee appointed by the Pharmaceutical Society.

### PUBLIC PHARMACISTS Result of ballot on salaries

AS a result of the postal ballot of members conducted by the Guild of Public Pharmacists (see *C. & D.*, July 3, p. 1) a motion dealing with a proposed salary claim was defeated by a majority of 199 votes. It is expected that negotiations with the management side of Committee C of the Pharmaceutical Whitley Council will be opened soon.

### RESEARCH FELLOWSHIPS Awards for 1954-55

THE following awards of research fellowships are announced by the Pharmaceutical Society:—

The Wellcome Pharmaceutical Research Fellowship 1954-55 (value £400) to:—

Mr. Norman Brudney, B.Pharm. (Hons.), High Wycombe, Bucks, for a second year



**PHARMACEUTICAL STUDENTS IN GERMANY:** Group photographed after the official reception by the mayor of Frankfurt of students attending the International Pharmaceutical Students' Federation camp held in Frankfurt from August 1-11. Front row standing, third from left is Mr. Sidney Relph (London president of the Federation).

to continue at the School of Pharmacy, University of London, research in physical pharmaceutical chemistry consisting of an extension of diffusion studies with aqueous fatty oils already initiated.

Mr. Barrie Lessel, B.Pharm. (Hons.), London, E.5, for a second year to continue at the School of Medicine, Dundee University College, research in endocrinology.

Miss Regina Mrozowska, B.Pharm. (Hons.), London, S.W.6, for a second year to continue at the department of physiology, Chelsea Polytechnic, research on the adrenal gland in the control of water balance.

Mr. Douglas W. Russell, B.Pharm. (Hons.), London, S.E.15, to whom an educational grant was made by the Council of the Pharmaceutical Society for 1953-54, to continue at the School of Pharmacy, University of London, research in phosphatide chemistry.

The Pharmaceutical Society Scholarship 1954-55 (value £350) to:—

Mr. Peter H. Elworthy, B.Pharm. (Hons.), Hornchurch, Essex, to continue at the School of Pharmacy, University of London, work on the physico-chemical properties of lecithin oils.

## BURMA DRUG INDUSTRY

### Contracts for buildings placed

A CONTRACT, worth approximately £2 millions, was initiated on August 23 between the Government of the Union of Burma and Holland & Hannen & Cubitts, Ltd., London, for the civil engineering work, erection of buildings and the mechanical and electrical installations for the Burma Pharmaceutical Industry (see *C. & D.*, October 24, 1953, p. 409). The contract includes provision for a railway line and jetty, together with housing for the staff. The factory buildings will cover well over 250,000 sq. ft. of floor space.

Contracts for some of the plant have already been placed by Evans Medical Supplies, Ltd., with British firms, and more contracts are being placed in the near future.

## COSMETIC CHEMISTRY

A PART-TIME course on the chemistry of cosmetics has been arranged by Acton Technical College, London, W.3, in consultation with the Society of Cosmetic Chemists. The course, which will extend over three years, with two sessions each of two hours per week, on the fundamental and applied chemistry of cosmetic manufacture and control, is primarily intended for junior chemists, laboratory technicians, research assistants, etc., in the industry, but will also appeal to others in associated industries utilising similar raw materials. The syllabus covers the essential organic chemistry, including selected aliphatic and aromatic classes of compounds used in cosmetics, together with some physical chemistry; raw materials and reagents used in cosmetics; detergents; oils, fats and waxes; soaps; essential oils; special soaps and creams; perfumery; principles of dermatology; hair preparations and dyes; permanent waving; essentials for product control; packaging; presentation, etc. It is intended to hold first and second year courses in 1954-55 so that students who have completed the first

year course elsewhere can continue their work. Enrolment dates: September 13, 14 and 15, but accommodation is limited and early application is advisable. Further details from the Principal, Acton Technical College, High Street, Acton, W.3.

## GOODS DELIVERY CHAOS?

EXPERIMENTS that the Metropolitan police are conducting in the early autumn, in which all traffic is being banned from stopping in a number of central London areas, including Piccadilly and Oxford Street, were described at a recent meeting in London convened by the metropolitan traffic liaison committee of the Traders' Road Transport Association as likely to lead to chaos. The committee is holding a census among those with business frontages in central London who would be affected by the restrictions. It was stated at the meeting that under the proposed restrictions traders and industrialists were being permitted to deliver goods up to 11.30 a.m. That would mean that some shop staffs would have to work through the night to receive deliveries. It was suggested that if the police claimed that the experiments were a success there might well be similar experiments in the main towns throughout the country.

## FRUIT JUICE EXEMPT

AN amendment which came into force on August 22 to the Food Standards (Soft Drinks) Order, 1953, provides exemption from the provisions of the Order for all fruit juice, with or without added sugar, including concentrated or frozen fruit juice. Previously the list of exempted products contained in the Order included the straight term "fruit juice" but made no specific provision for fruit juice to which sugar had been added or for concentrated or frozen fruit juice, with or without sugar. Manufacturers are reminded that, where sugar is added to a fruit juice, the presence of sugar must be declared on the label, in accordance with the Labelling of Food Order, 1953. The amending Order also makes the definition of the term fruit juice more precise by adding the word "undiluted."

## CLASSIFYING OF DRUGS

A LIST of members of the new Standing Joint Committee on the Classification of Proprietary Preparations [that replaces the former Joint Committee on Prescribing (Cohen Committee)] appointed by the Central and Scottish Health Services Councils was issued on August 18. It is as follows:—Professors Sir Henry Cohen (chairman), Stanley Alstead, Sir Charles Dodds and C. A. Keele, and Messrs. H. C. Faulkner, J. C. Hanbury, K. S. Maurice-Smith, A. J. Pitkeathly, J. H. Ramsay, D. E. Sparshott and W. Woolley. The terms of reference of the new committee are "to continue the work of classifying proprietary preparations previously carried out by the Joint Committee on Prescribing on form EC10 and to make recommendations from time to time."

## MISUSE OF DRUGS

DRUGS given for the treatment of many diseases today were being used too frequently, said a Plymouth doctor addressing local rotarians at a recent luncheon. The drugs were used as umbrellas to keep off infection rather than as weapons to attack a disease already present, he said, and they were sometimes given in insufficient doses or for the treatment of infections for which they were unsuited, with the result that germs were becoming resistant. He condemned the injudicious and random use of antibiotics and said that earlier moulds such as penicillin would be useless in the future and more "mycins" would have to be developed to take their place.

## CONFERENCE EXCURSIONS

IT is announced that no further bookings for the British Pharmaceutical Conference works' excursions or for the Shakespeare Memorial Theatre, Stratford-on-Avon, can be accepted. There is ample accommodation for the tour of the city, for the excursion to Blenheim Palace and for the Conference excursion.

## CROP CHEMICALS

THE Ministry of Agriculture and Fisheries has published the 1954 "Approved List of Crop Protection Products." Copies may be obtained free of charge, from the Ministry of Agriculture and Fisheries, Plant Pathology Laboratory, 28 Milton Road, Harpenden, Herts.

## SCOTTISH NEWS

### T.B. NOT YET DEFEATED

SPEAKING at a meeting of the World Federation of Occupational Therapists in Edinburgh on August 17, Dr. Christopher Clayson gave a warning that it was premature to talk of the defeat of tuberculosis. At the present rate of progress that would take at least another twenty years. The present decline in tuberculosis mortality rates had caused much unjustified optimism. From 310 deaths a 100,000 of population in 1882, when the tubercle bacillus was first described, the rate was down to twenty-six in 1953; but the notification returns showed that there was an increasing incidence of tuberculosis among adolescents and young adults. Taken in conjunction with the low death rate, that increased notification meant that there were more people suffering from the disease. Some 60 per cent. of them were aged from fifteen to thirty-four. The apparent increase in the prevalence of tuberculosis was due to the ironic fact that improved public health methods had postponed the time of the primary infection, first, from infancy to childhood, and now, less desirably, from childhood into the more hazardous years of adolescence, when the infection was not necessarily easily cured. Referring to the number of treated patients who relapsed and so required further treatment, he quoted one series showing that since the coming of streptomycin the relapse rate had much increased. That, he thought, was probably because the

patients had spent a shorter time in the sanatorium, which the beneficial effects of streptomycin did not justify. Among those who relapsed streptomycin had done nothing to cut down the number of persons still excreting tubercle bacilli. Chemotherapy exerted only a temporary suppressive effect on the tuberculous process, but doctors should take advantage of that temporary suppression.

## NEWS IN BRIEF

THE ninth International Fair of Ghent is being opened in the Botanical Gardens, Ghent, on September 11 by the Belgian Prime Minister.

THE United Kingdom had a net surplus in its trading accounts with the European Payments Union in July of £9,442,500.

THE first Drummond Fellowship in nutrition has been awarded to Dr. Iain MacIntyre at the Postgraduate Medical School of London.

BECAUSE of the pressure of other work, Mr. Langwell has resigned as secretary of the Chemical Club and Mr. E. Chilman has been appointed his successor.

MR. P. J. MULROONEY, and not Mr. P. J. Mulroney, as stated in the *C. & D.*, August 14, p. 155, has passed the Registered Druggist examination of the Pharmaceutical Society of Ireland.

COPIES of a new leaflet issued by the Ministry of Pensions and National Insurance outlining the industrial injuries scheme and entitled "Injury Benefit for Accidents at Work," may be obtained from local officers of the Ministry.

WINNERS of a recent Atkinsons' sales competition between branches of the Plymouth Co-operative Society, Ltd., were the company's George Street, Mutley Plain and Courtenay Street branches, who received prizes given by J. & E. Atkinson, Ltd.

A SUGGESTION that charges for dental treatment under the National Health Service should be reduced step by step and ultimately abolished has been made by the British Dental Association to the committee of inquiry into the cost of the National Health Service (the Guillebaud Committee).

## SPORT

Golf.—EDINBURGH CHEMISTS' GOLF CLUB, at Duddingston, recently. Competition for the vice-captain's prize: Winner: F. Maloney (20), 70. Best scratch score: H. Semple, 77. No. 1 section: T. Strachan (10), 71; No. 2 section: F. Maloney (20), 70.

## N.H.S. STATISTICS

In BLACKBURN during 1953-54, 738,574 prescriptions were dispensed at an average total cost per prescription of 4s. 10½d.

In the ISLE OF ELY during 1953-54, 322,261 prescriptions were dispensed at a total cost of £60,446. The average total cost per prescription was 3s. 9d.

In STAFFORDSHIRE during 1953-54, 3,763,583 prescriptions were dispensed at a total cost of £726,633. The average total cost per prescription was 3s. 10d.

# TOPICAL REFLECTIONS

By Xrayser

## Rejuvenation

The articles you publish from time to time dealing with the adaptation of premises and the modernisation of businesses must, I am sure, be of considerable value to many readers besides the particular pharmacist who initiates the inquiry. I note that one of these expresses his gratitude for the advice given (p. 187). I recently visited a pharmacy in which, many years ago, I acted as assistant. At that time the shop had just been expensively fitted in mahogany and plate-glass and was considered a good example of what a high-class pharmacy should be. Today, although the mahogany and plate-glass are as durable as ever, it is sadly noticeable that the appearance of the establishment falls far behind that of the modern shop fronts in the same business quarter. When one's business has grown rather stale and one's ideas on display all seem to have been worked out, altering the interior layout and, if practicable, giving the pharmacy a new look by fitting a modern shop front will pay good dividends. Such alterations have great advertising value and business pulling power.

## Nucleus of Service

Although my reflections are generally based on the items contained in your current issue I may perhaps comment on the absence of some of your customary features in this holiday month of August, owing to the suspension of meetings of branches of the Pharmaceutical Society and local pharmaceutical associations and Pharmaceutical Committees. In my opinion, one of the most valuable developments arising out of national health administration is the Pharmaceutical Committee, the nucleus of the pharmaceutical service provided jointly by all chemist contractors in each area. Pharmacists elect these committees, compose their membership and benefit by their activities. Throughout the country there must now be a large body of pharmacists who have had many years' experience, stretching back into N.H.I. days, of the specialised work of these committees. Discussions at National Pharmaceutical Union conferences reveal how well acquainted delegates are with matters relating to the dispensing contract. It is the informed opinion of local pharmacists which sets the pattern for the national policy of the N.P.U. It is the solid support of all individual contractors which gives strength to the central representative body and supplies the motive power to maintain its forward movement. And the channel for the interpretation of that opinion and for the transmission of that power is the Local Pharmaceutical Committee.

## Learning and Building

About this time of year local branches of the Society and pharmaceutical associations issue to their members the prospectus of their meetings for the forthcoming winter session. Practically all pharmacists engaged in retail work now take their part in providing the nation's pharmaceutical service and it appears to me to be more than ever necessary for them to confer periodically. Attendance at those meetings would seem to offer the best opportunity for effecting that. The lectures on current pharmaceutical developments interspersed throughout winter programmes furnish excellent post-graduate instruction on matters frequently met with in daily practice. Medical and pharmaceutical developments now progress at such a pace that continuous study of current changes is a necessity to enable the pharmacist to keep abreast of advancing knowledge. This is a young people's world, it is for them not only to build for posterity but, from current events, to shape their own immediate future. It has been suggested that the present-day pharmacist earns his daily bread more by the trickle from his tablet counter than (as of old) by the flow from his percolator, but pharmacy must always maintain its scientific basis and its future progress depends on the up-to-date knowledge possessed by its individual practitioners.

## NEW COMPANIES

P.C.—Private Company; R.O.—Registered Office

WISA, LTD. (P.C.)—Capital £100. To carry on the business of manufacturing and dispensing chemists, etc. Directors: Henry Windsley, M.B., B.S., and Allan P. C. Thiele, B.Sc. R.O.: 221 Watford Way, London, N.W.4.

SAFCA AEROSOL MANUFACTURING, LTD. (P.C.)—Capital £35,000. Directors: R. M. C. Kittoe, J. F. J. Hayne, R. M. A. J. Pollet, W. R. Darwin and H. E. Fuller. R.O.: 1 Mallow Street, London, E.C.1.

G. S. BALL (EASTWOOD), LTD. (P.C.)—Capital £1,760. To acquire the business of a chemist formerly carried on by George S. Ball, M.P.S., at 197 Nottingham Road, Eastwood, Notts. Directors: G. S. Ball, George Goodwill, M.P.S. and John M. Ball.

WEST LONDON CHEMISTS, LTD. (P.C.)—Capital £3,000. To carry on the business of chemists, etc. Directors: Sidney J. Osborne, M.P.S., Albert Stokes and Gwendoline M. Rogers. R.O.: 154 High Road, Chiswick, London, W.4.

H. S. STEAD, LTD. (P.C.)—Capital £2,500. To acquire the business of pharmaceutical chemists carried on by Harry S. Stead at 77 High Street, Newton le Willows. Directors: Harry S. Stead, M.P.S., Dorothy Stead and William N. Mitchell.

H. POULTON, LTD. (P.C.)—Capital £1,200. To carry on the business of wholesale agents for the sale of toilet, pharmaceutical and medical goods, etc. Subscribers: Herbert Poulton and Keith M. Macintosh. R.O.: 27A Wright Street, Southport.

STUART LEE, LTD. (P.C.)—Capital £100. To carry on the business of manufacturers and retailers of finger nail preparations, etc. Directors: Elizabeth Stuart Lee and Joan M. Milner. R.O.: 63 Great Portland Street, London, W.1.

RICHARD WALL, LTD. (P.C.)—Capital £2,000. To carry on the business of manufacturing and dispensing chemists, opticians, etc. Directors: Richard M. Wall and Reginald L. Wall. R.O.: 9 Arundel Street, London, W.C.2.

JONAH JONES & SON, LTD. (P.C.)—Capital £3,000. To acquire the business of a pharmacist carried on as Jonah Jones & Son at 24 Rhosmaen Street, Llandilo, Carmarthens. Directors: Mrs. Arianwen Davies and David J. G. Davies.

FIBRISOL SERVICE, LTD. (P.C.)—Capital £500. To deal in chemicals for the food and allied trades, etc. Subscribers: Julie Brum, 35 The Park, Ealing, London, W.5, and Mark Harris. First directors are to be appointed by the subscribers.

CLARKE PHARMACEUTICALS, LTD. (P.C.)—Capital £100. To carry on the business of wholesale, retail and manufacturing chemists and opticians, etc. Directors: Joseph H. Clarke and James H. F. Hurford, M.P.S. (directors, Multipax, Ltd.). R.O.: 32 Shaftesbury Avenue, London, W.1.

YARDLEY (RAYLEIGH) LTD. (P.C.)—Capital £2,000. To carry on the business of manufacturing and dispensing chemists, opticians, etc. Directors: Winifred S. Unwin, Geoffrey W. Unwin, George W. Smith and John Preston, M.P.S. R.O.: 111 High Street, Rayleigh, Essex.

P. & J. HAGUE, LTD. (P.C.)—Capital £100. To carry on the business of retail chemists or druggists, etc. Directors: Geoffrey N. Hague, Walter S. Hague, Phyllis I. Hague, M.P.S., Fernbank, Henrietta Street, Ashton-under-Lyne; Jane Hague; Walter Hague and Alec F. Mawer.

WM. J. MACNAB & CO., LTD. (P.C.)—Registered in Belfast. Capital £10,000. To acquire the business of Wm. J. Macnab carried on at 76 Donegall Passage, Belfast; and to carry on the business of merchants, drysalters, etc. Directors: William J. Macnab, Annie Macnab and Peter F. Macnab.

K. M. O'CALLAGHAN, LTD. (P.C.)—Capital £1,000. To acquire the business of chemist and druggist carried on by the late Miss K. M. O'Callaghan at 385 High Road, Harrow Weald. Directors: Cornelius F. O'Callaghan, Eileen R. O'Callaghan, M.P.S., and Timothy J. O'Callaghan, B.Pharm., F.P.S.

## Company News

Previous year's figures in parentheses

DISTILLERS CO., LTD.—Group manufacturing and trading profits for the year ended March 31 were £19,717,540 (£13,030,747). One of the two major contributions to the higher profits is attributed to a marked recovery in the chemical and plastics divisions.

INTERNATIONAL NICKEL CO. OF CANADA, LTD.—The report of the company and subsidiaries for the six months ended June 30 shows net earnings in terms of U.S. currency, of \$32,586,185 after all charges, depreciation, depletion, taxes, etc., equivalent, after preferred dividends, to \$2.16 per share on the common stock. For the corresponding six months of 1953 net earnings were \$29,205,595, or \$1.93 per share.

FISONS, LTD.—The company's subsidiary, FISONS CHEMICALS, LTD., in partnership with HARRISON & CROSFIELD, LTD., has acquired a controlling interest in FINE CHEMICALS OF CANADA, LTD. Fisons will be represented on the board of the latter company by their commercial director (Mr. A. Wormald) as vice-president, and by Mr. W. Abel Smith. Mr. Smith has also been appointed the North American representative of the Fison group of companies, with offices at Suite 1266, 230 Park Avenue, New York, 17.

## BUSINESS CHANGE

### Appointment

CUXSON, GERRARD & CO., LTD., have appointed Mr. T. Lynch their representative for Norfolk, Suffolk, Essex, Middlesex, Hertfordshire, Huntingdonshire, Cambridgeshire, Bedfordshire and Buckinghamshire.

## PERSONALITIES

MR. R. L. DEMUTH (managing director, R. Demuth, Ltd., and chairman, Toilet Preparations Federation, Ltd.) is presiding over section 9 (hygiene and beauty products) of the World Congress on Surface Active Agents, being held in Paris from August 30 to September 3.

MR. C. A. O. RIDEAL (director of sales, May & Baker, Ltd.) recently



completed twenty-five years' service with the company and to mark the occasion was presented with a gold watch by the managing director. Mr. Rideal joined the company at Battersea in 1929. In 1939 he was made commercial manager and two years later he was appointed to the board of directors.

MR. J. G. CAPSTAFF, who has recently retired from his position as head of the special photographic department of the Eastman Kodak Co. research laboratories after more than forty years' service with the company, studied photography in England as a young man. In 1912 he was engaged to take charge of the production of Wratten filters at the Eastman Kodak Co. in America. His outstanding contribution to photography was the invention of a practical method of making motion pictures for home use. He also helped in developing the necessary cameras, projectors and processing equipment. Mr. Capstaff was also a pioneer in colour photography. In 1914 he began to make colour portraits by a two-colour method and colour transparencies made by that system were exhibited in 1915 at the World's Fair in San Francisco. In 1925 he successfully developed a French lenticular system of additive colour photography for use with 16 mm. amateur ciné films. Research work on a 35 mm. lenticular process was carried on subsequently. Mr. Capstaff's discovery that a yellow dye improved films used for making duplicate negatives led to the introduction of special emulsions for that purpose and to the modern moving picture practice of duplicating original negatives. In 1944, Mr. Capstaff was made an honorary Fellow of the Royal Photographic Society and in 1946 was the recipient of the progress medal, the Society's highest award. He received the Modern Pioneers Award of the National Association of Manufacturers in 1940, and in 1950 the Photographic Society of America awarded him an honorary Fellowship. He received an honorary mention from the Academy of Motion Picture Arts and Sciences in 1943, and in 1944 the Society of Motion Picture and Television Engineers awarded him their progress medal.

## BIRTH

MARSHALL.—At Redlands, Glasgow, Lanarks, on August 18, to Leonora, wife of James Marshall, M.P.S., 5 Flemington Street, Glasgow, N., a daughter.

## DEATHS

ANNING.—At the home of his son (Dr. S. T. Anning, Shaw Lane, Leeds) on August 14, Dr. James John Anning, aged eighty-three. Dr. Anning qualified as a chemist and druggist in 1891 and was in partnership in Woodhouse Lane, Leeds. Later he was in general practice in Beeston, Leeds, and was medical officer to the Leeds Corporation transport department. For thirty-three years he was divisional surgeon to the transport ambulance section. He served as a captain in the Royal Army Medical Corps in the 1914-18 war. He was twice chairman of the Leeds division of the British Medical Association. He is survived by two sons and two daughters.

DAVIS.—At St. Lawrence's (Richmond) Hospital, Dublin, on August 18, Mr. Cecil Ignatius Davis, M.P.S.I., 34 Fairview, Strand, Dublin, aged sixty. Mr. Davis was a native of Enniskillen, co. Fermanagh, and had spent over twenty-five years in Dublin. He was apprenticed to Mr. William S. Taylor, Enniskillen, and when he passed the qualifying examination of the Pharmaceutical Society of Ireland in 1917, he won first place and was awarded the Society's gold medal.

GOURLAY.—Suddenly, at his shop in Jane Street, Workington, Cumberland, on August 15, Mr. William Gourlay, M.P.S., aged fifty-nine.

MALLEY.—Recently, Mr. Reginald Edward Malley, M.P.S., Danetre, Ashley Road, Newmarket, Suffolk. Mr. Malley qualified in 1930.

NORTHEY.—At the Royal Cornwall Infirmary, Truro, on August 21, following an operation the previous day, Mr. S. M. Northery, M.P.S., Turret House, Bodmin, aged seventy-six. Mr. Northery had been mayor of Bodmin. He was a senior member of the town council, a freeman and alderman, and a borough magistrate. He sold his retail business only a month ago with the intention of retiring.

PREScott.—On August 22, Mr. Wilfred Egerton Prescott, M.P.S., 26 London Street, Southport, Lancs, aged eighty. Mr. Prescott had been in business in Southport for nearly sixty years.

## WILLS

Mr. D. G. MELVILLE, M.P.S., 43 Digby Mansions, Hammersmith, London, W.6, left £2,731 (£1,361 net).

Mr. H. REEVES, M.P.S., 37 Ranelagh Gardens, London, S.W.13, left £293.

Mr. A. T. RUTHERFORD, M.P.S., 2 Sidney Crescent, Newbiggin-by-the-Sea, Northumberland, left £28,643 (£28,140 net).

Mr. C. A. WAIN, M.P.S., 96 Lister Street, Rotherham, Yorkshire, left £3,217 (£3,181 net).

Mr. A. WALL, M.P.S., 29 Wordsworth Road, Old Trafford, Manchester, left £2,505 (£2,088 net).

Mr. N. WILLIAMS, M.P.S., 10 Avenue Road, King's Lynn, Norfolk, left £6,010 (£5,970 net).

## LEGAL REPORTS

## Unauthorised Possession

At Liverpool, on August 12, a coloured man, Henry Livingstone Yard, 96 Berkeley Street, Liverpool, was fined £25 for being in unauthorised possession of Indian hemp.—At the London sessions on July 30, Rennel Burton, a coloured man, Stanmore Street, Islington, was found guilty of unauthorised possession of Indian hemp and was conditionally discharged on payment of £10 10s. costs.—At Middlesbrough on August 4 Babu Khan, an Indian, was sent to prison for three months and was fined £25 with the alternative of a further two months' imprisonment for unauthorised possession of Indian hemp.

## Purchase-Tax Offences

FINED a total of £7,473 on July 14 for purchase-tax offences (see *C. & D.*, July 24, p. 77), John Arthur Taylor, toilet preparation wholesaler, 81 Wellington Avenue, Westcliff-on-Sea, reappeared at Old Street magistrates' court on August 20 on a means inquiry summons as the money had not been paid. Solicitor for Taylor recalled that all but £300 of the amount outstanding was purchase tax which had not been paid. The magistrate had told him to go away and see what he could do about the £300. He had found £150 himself and he (the solicitor) had put him forward as a man who helped his neighbours and his neighbours had helped him with another £150. He intended to pay all that money—however long it took him. He hoped that in the fullness of time he would pay the whole of it and he was still comparatively young. In evidence, Taylor, who mentioned that he had brought £300 to court that day, said he was drawing £12 10s. a week from the business. He had no other source of income. He offered £3 a week to pay the balance. The magistrate: On payment of £300 today, I will adjourn this means inquiry until February 15, 1955, upon the basis that you pay not less than £3 regularly every week. I shall then require you to have a statement of your drawings from the firm so as to see that the country is getting the maximum that it can from you. You must appreciate what the only alternative will have to be. I think the most practicable thing is that you pay the very utmost that you can rather than that you go to prison and the country get nothing.

## Apprentice's Mistake

AT Leeds city court on August 17, Timothy Whites & Taylors, Ltd., were fined £25 for selling at their branch in Roundhay Road, Leeds, poison not in accordance with a prescription, and £5 for selling poison there, the sale not being under the supervision of a pharmacist. They were ordered to pay £14 13s. costs. Mr. A. C. Castle, prosecuting for the Pharmaceutical Society, said that a man was seen by a police officer to be driving his car in an erratic manner, and when he got out of the car he walked unsteadily and appeared to be dazed and sleepy. Inquiries revealed that he had been

treated by his doctor for a nervous disorder and tablets of Solprin had been prescribed for him, and he was to take two tablets every four hours. The prescription was taken to the defendant's shop at 12.20 p.m. on May 12 and a box of tablets was collected at 4.30 p.m. the same day. The box did not contain Solprin, however, but tablets of Soncrys. It was discovered that the prescription had been dispensed by an apprentice with about eight months' experience. A pharmacist was not present at the time. Mr. P. Stanley Price, defending, said that never before had the company been in such a predicament. The apprentice was sensible and intelligent and writing on the prescription was clear, and yet by some unaccountable error Solprin had been taken for Soncrys and the tablets had been put by the apprentice ready for checking. Mr. Price continued that to the best of his knowledge the tablets were collected at 1.30 p.m. and were not checked. He went on to explain that the company had a thorough scheme of instruction for apprentices and every step was taken to ensure that people in the shop knew the law about poisons. The importance attached by the company to the carrying out of its duties in that respect was therefore quite clear, and the action of the apprentice was contrary to the company's teaching. That, he added, did not indicate a loophole in the company's standard practice but it did indicate a departure from it.

## INQUESTS

Tablets in Sweets Drawer.—At an inquest at Newcastle-on-Tyne, recently, the coroner criticised the mother of a 20-months-old child for leaving some sugar-coated iron tablets in a drawer in which the child's sweets were normally kept. A verdict of death by misadventure was returned on the child, Keith Temple.

Massive Dose of Barbiturate.—A chemist's assistant (Miss Frances Gross, 33 Colberg Place, Stamford Hill, London) was stated by Dr. K. A. D. Turk (pathologist) at an inquest in Hackney, London, recently, to have taken "a massive dose" of a barbiturate drug. A verdict that she took her life while not of sound mind was recorded.

Forgot his Insulin, Died.—A fifteen-year-old boy's reluctance to tell his parents that he had come on holiday without his insulin led to his death, it was disclosed at an inquest at Ashton-under-Lyne, Lancs, on August 9 on Ronald Evans, Albert Street North, Whittington Moor, Chesterfield, Derby. The father, George Evans, said that the boy packed syringes and other apparatus but forgot his insulin. Witness did not discover that until five days afterwards and the boy then insisted that he had it with him. The boy became ill and was taken to hospital, where he died. A pathologist gave evidence that death occurred from asphyxia through the inhalation of stomach contents while in a state of coma. Verdict: accidental death.

## TRADE NOTES

**Window Display Competition.**—Hanovia, Ltd., Slough, have sent leaflets giving details and rules for their national window display competition to dealers (see *C. & D.*, July 24, p. 79).

**Correction to Advertisement.**—In the advertisement of C. F. Gerhardt, Ltd., 5 Fenchurch Street, London, E.C.3, in the *C. & D.*, August 21, cascara bark should have been described as "Evenized" and not as stated.

**Sanitary Towels.**—Chemist's Sundries (Preston), Ltd., 306 Station Road, Bamber Bridge, Preston, Lancs., are offering to chemists only, Satinette, cotton soluble and wool sanitary towels.

**Junkets for Diabetics.**—Benger's, Ltd., Holmes Chapel, Ches., have resumed manufacture of their old speciality—a diabetic junket. Since they ceased to make it there have been constant demands for its return. It is being marketed in strawberry and vanilla flavours.

**Prices Corrected.**—J. & E. Atkinson, Ltd., Old Bond Street, London, W.1, announce an error in the prices that have been quoted for their Skin Deep preparations in their advertising in the September monthly magazines and women's weekly magazines. The correct prices are quoted on page 28 of this issue.

**Sugarless Preserves.**—Frank Cooper, Ltd., Oxford, are manufacturers of sugarless preserves for diabetic and obese patients. It is claimed that the sorbitol used in their manufacture is more resistant to the growth of mould than sucrose. The following preserves are available in 7-oz., 15-oz. and 7-lb. sizes: Oxford marmalade, strawberry, raspberry, blackcurrant, apricot, black cherry.

**Bonus Offers.**—POTTER & CLARK, LTD., River Road, Barking, Essex, are offering bonuses of 1 doz. charged as eleven on minimum parcels of 3 doz. (mixed or all of one kind) of their Potter's catarrh pastilles and crystallised catarrh pastilles. The offer is available through wholesalers only.—Until August 31, CUXSON, GERRARD & CO., LTD., Oldbury, Birmingham, are offering an extra 5 per cent. discount on all orders for Adaptoplast in return for a fortnight's display.—On orders for a minimum of 6 doz. Galloway's cough syrup and/or lung syrup, P. H. GALLOWAY, LTD., London, S.E.17, are offering, during September, a bonus of 10 per cent. discount on orders of £4 and over in value, excluding purchase tax, and of 7½ per cent. on orders value less than £4, excluding purchase tax.—LEHN & FINK PRODUCTS, LTD., Raynes Park, London, S.W.20, are offering a thirteen to the doz. bonus on orders for 3 doz. or more of the 2½ fl. oz. of Osyl.—A bonus of one free packet for each doz. Moorland indigestion tablets and/or Penetrol products ordered for delivery in September is offered by W. B. CARTWRIGHT, LTD., Rawdon, Leeds.—To introduce the new chocolate flavoured Bemax, VITAMINS, LTD., Department A.A.1, 23 Upper Mall, London, W.6,

are offering a thirteen to the doz. bonus on orders for certain Bemax parcels received between September 1 and October 16.

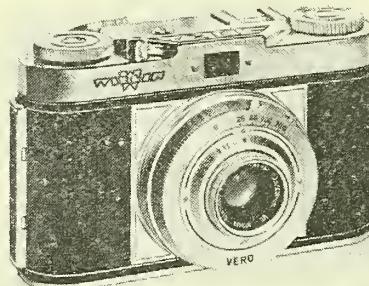
### Christmas Goods Display

SPA BRUSHES, LTD., Freeman Works, Chesham, Bucks, are holding an annual trade show of Christmas gift goods at:

LEEDS: Queen's Hotel, August 30 to September 3.

## PHOTOGRAPHIC NOTES

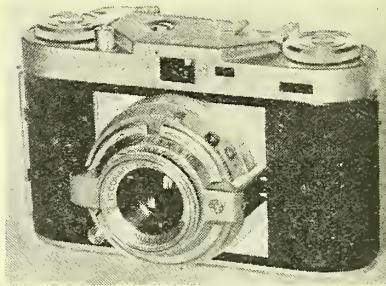
**New Models in Camera Range.**—Two new models in the Edixa range of cameras were recently made available in this country through North Staffs Photographic Services, Ball's Yard, Newcastle, Staffs. The first, the Edixa I.S., is the lowest priced in the



Edixa I.S. camera

range. It has all the features of the normal Edixa I models (lever wind, cocking shutter, transporting film, operating counting mechanism and setting interlock) but differs in lens and shutter. The lens is a 40-mm. f/3·5 coated Cassar and the shutter a Vero (a new shutter made by the makers of the Prontor S.V.S.) with B, 1/25, 1/50, 1/100, 1/200 speeds. The other new model is the Edixa II S.V.S., a coupled

rangefinder model fitted with Prontor S.V.S. shutter shown for the first time at the 1954 Photokina exhibition in Cologne. The model supersedes the Edixa I.S.



Edixa II S.V.S. camera

**Flashholder and Accessories.**—The latest addition to the range of equipment for flash photography offered by Kodak, Ltd., Wealdstone, Harrow, is the Kodak flashholder, model II. It can be used either for synchro-flash pictures on cameras with suitable flash contacts or for "open flash" pictures, and can be fitted by means of a bracket (available as an accessory) to any camera provided with a standard tripod bush. For synchronised exposures two Kodak flashholder cables are available, with plugs to fit different types of flash contacts. A red plastic push-button mounted on the battery container operates the switch, which fires the bulb for open-flash photographs. The flashholder consists of a battery case attached to a lamp-holder reflector assembly. The moulded back of the battery case unscrews for the insertion of a flashpack, or two Ever Ready U11 or similar batteries. The aluminium reflector of the flashholder takes midget-type photographic flashbulbs, and after firing the spent bulb is ejected by means of a small release lever on top of the battery case. The Kodak flashpack converts the flashholder, model II, into a battery-capacitor unit.

## NEW MICROSCOPES AND AN ACCESSORY

To commemorate one hundred years in the manufacture of microscopes, James Swift & Son, Ltd., 113 Camberwell Road, London, S.E.5, have introduced a new Century range of microscopes embodying many novel features. All instruments in the range are based upon a common stand, comprising foot and limb, stage bracket and coarse and fine body adjustments machined in sympathy with the dovetailed slides of the focusing substage. The customer is offered a wide range of components and accessories to mount upon the "basic" stand and the design thus offers the greatest freedom of choice of a microscope outfit whether biological, polarising or metallurgical, plus a high degree of convertibility. The factor of convertibility is of importance where the needs of the laboratory or industry may change. The design lays stress upon the protection of the specimen, objectives and mechanism of the microscope from careless use or mischance. Another

new instrument by the company, the Swift automatic point counter, enables any mixture, transparent or opaque,



whose constituents can be identified under a microscope, to be analysed simply and quickly by sampling at the points of a symmetrical grid, the accuracy being dependent on the number of points that are sampled by the operator.

## NEW PRODUCTS AND PACKS

**Smaller Size Available.**—S. West, Ltd., 2 Exchange Buildings, Rutland Street, Leicester, are introducing a 1-oz. tube of their Cremalgin balm (rubefacient cream) for dispensing purposes.

**Shampoo Economy Pack.**—A new economy 3-oz. pack of Cidal cream shampoo is being introduced by J. Bibby & Sons, Ltd., King Edward Street, Liverpool, 3.

**Lip Pencil.**—Alfred Franks & Bartlett Co., Ltd., 226 Gray's Inn Road, London, W.C.1, are sole distributors of Bartlett's lip pencil for outlining lips before filling in with lipstick. It is available in three shades.

**Dandruff Treatment.**—French of London, Ltd., 4 Curzon Place, London, W.1, are introducing a combined shampoo and lotion treatment for dandruff: the Bonne Sante "twins." They are the Bonne Sante shampoo, and Bonne Sante lotion for use between shampoos.

**Correction.**—Of the new Richard Hudnut series of beauty preparations introduced by Richard Hudnut, Ltd., Power Road, London, W.4, and described in the *C. & D.*, July 31, p. 113, the skin freshener is mildly astringent and the cleansing cream is lanolin-based and not as stated.

**For Chilblains.**—The latest addition to the Samaritan series of ointments and creams is Samaritan chilblain cream now being issued by Thornton & Ross, Ltd., Linthwaite, Huddersfield, in readiness for the winter season. The cream is based on up-to-date knowledge, and has proved very effective in use. Its presentation is attractive, and the tube forms a handy means of application.

**New Perfume Series.**—Coty (England), Ltd., 3 Stratford Place, London, W.1, announce that from October 1, they will be marketing their L'Origan perfume in purser,  $\frac{1}{4}$ -oz.,  $\frac{1}{2}$ -oz., 1-oz., 2-oz., and 4-oz. bottles and in 2-oz. bottle in leather case. Matching toilet products include face powder, solid cologne, sachets, toilet water, bath oil, bath salts, talcum powder, soap and brilliantine. Packages feature a gold leaf motif.

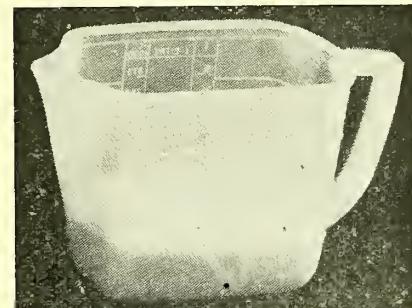
**Muscle Relaxant.**—E. R. Squibb & Sons, 17 Old Bond Street, London, W.1, have introduced Tolseram tablets, each containing 0.5 gm. of mephenesin carbamate. Clinical trials commenced in the United Kingdom in 1953 are said to indicate that the new compound is significantly more active than mephenesin in the treatment of various spastic and hyperkinetic conditions and two favourable reports have recently been published in the British Medical Press in connection with its use in fibrositis and disseminated sclerosis. Tolseram tablets are supplied in bottles containing twenty-five, 100 and 1,000 tablets.

**Film-sealed Tablets.**—Erythrocin (erythromycin, Abbott) is now available from Abbott Laboratories, Ltd., Greenford, as the stearate salt in film-sealed (not enteric coated) tablets. The new

tablets disintegrate faster and allow immediate absorption. High blood concentrations of erythromycin are reached in less than two hours. A 200 mgm. tablet is now available in addition to the 100 mgm. strength. The price of the new Filmtab Erythrocin stearate is 20 per cent. less than that charged for the old enteric-coated tablets.

**Promethazine Cough Linctus.**—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, announce the introduction of Phensedyl cough linctus, which contains promethazine hydrochloride, codeine phosphate, and ephedrine hydrochloride in a flavoured syrup. The central sedative and local analgesic effects of promethazine combined with the anti-tussive effects of codeine phosphate are useful in soothing refractory coughs. In coughs of allergic origin the antihistaminic properties of promethazine are effective. The bronchodilator action of ephedrine is of value in the relief of bronchospasm in bronchitis, asthmatic coughs and whooping cough. In whooping cough the anti-emetic action of promethazine is said to make the linctus particularly valuable. It is supplied in bottles of 4 and 40 fl. oz.

**Polythene Jug.**—Halex, Ltd., Highams Park, London, E.4, announce that the Bex two-pint measuring jug is now being made in polythene. It is expected that the new jug will be welcomed wherever a high breakage rate is normally experienced, in hospitals, schools, and in industrial concerns, as well as in the home. It withstands



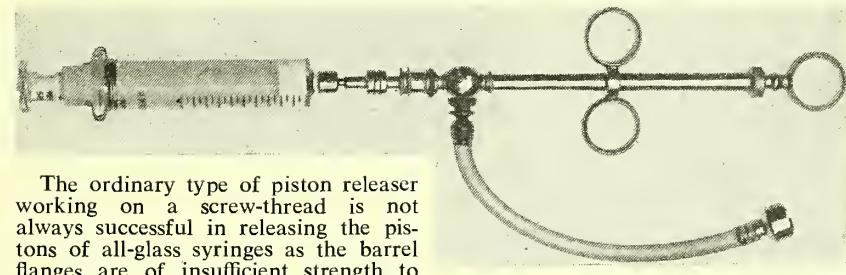
boiling water, and is impervious to acids and most chemicals. The jug remains firm even when filled to the brim. In natural polythene only, the jug is marked with cups, half-pints, fluid ounces, litres, cubic centimetres, and angled pouring levels.

## JAMMED HYPODERMIC SYRINGES

### New type of releaser

A NEW type of releaser for the freeing of jammed pistons in hypodermic syringes, evolved by Mr. A. G. Keighley and perfected and manufactured and distributed by Edwards Surgical Supplies, Ltd., 83 Mortimer Street, London, W.1, is based on a hydraulic principle, using water as a hydraulic medium.

opens an outlet valve through which the water passes into the barrel of the syringe held in the mount. When the barrel of the releaser is empty (i.e., when the plunger has reached the limit of its forward travel) the plunger is drawn backwards, closing the outlet valve and refilling the barrel of the releaser with a fresh charge of water.



The ordinary type of piston releaser working on a screw-thread is not always successful in releasing the pistons of all-glass syringes as the barrel flanges are of insufficient strength to withstand the strain when pressure is applied by means of the screw-thread, and that type of releaser requires modification for dealing with the larger sizes of syringe.

The new apparatus consists of a small-bore syringe with a plastic tube attached at one end to one side of the syringe body and the other end of which is immersed in a container of water. The nozzle of the syringe to be treated is inserted into a mount at the end of the releaser and securely held in position. The plunger of the releaser is then withdrawn introducing a supply of water through an inlet valve into the body of the apparatus. After ensuring that the syringe for treatment is firmly fitted into the mount, the plunger of the releaser is depressed. This action closes the inlet valve and

By repeating these forward and backward movements of the plunger a pressure is built up in the barrel of the jammed syringe and this pressure forces the piston backwards out of the barrel no matter how tightly it was wedged.

The releaser frees the jammed piston of any type of syringe and is simple to operate and of a size that can be handled easily by nursing staff. An adaptor is supplied with the syringe so that "lock-on," Record or Luer nozzled syringes can be released with ease.

It is claimed that the cost of the appliance can be saved in a short time by reclaiming for further service those syringes which would have had to be discarded through jamming.

# HEALTH SCHEME IN IRISH REPUBLIC

## Text of first agreement between pharmacists and Health Department

THE first agreement between pharmacists in the Irish Republic and the Irish Department of Health has been signed. Under the terms of the agreement, medicines are to be supplied through chemists to certain persons in the lower income group, on terms which are set out below.

Prior to the completion of the agreement a deputation from the Pharmaceutical Society of Ireland saw the Minister for Health when the views of the Society's Council on the whole question of the functions of chemists under the Health Acts were put forward. The representatives of the Society received by the Minister were the president (Mr. M. Costello), the vice-president (Mr. P. F. McGrath), the treasurer (Mr. H. P. Corrigan), a member of Council (Mr. C. J. Cremen) and the registrar (Mr. James G. Coleman). Following that conference with the Minister (Mr. T. F. O'Higgins, S.C.), representatives from the Joint Committee of the Society and the Irish Drug Association saw principal officials of the Health Department on three occasions, at which the final details of the agreement were discussed and reviewed. The suggested terms had been already disclosed to the annual meeting of the I.D.A. and full approval expressed in a vote of confidence in the Joint Committee.

### Maternity Benefits

A covering memorandum circulated by the I.D.A. with the text of the agreement states: "Acting therefore on that vote of confidence, the Joint Committee went ahead, and in the last week (circular dated August 18) has agreed with the Department of Health for the supplying of medicines under certain conditions to persons of the lower income group, who under Sections 16 (4) and 17 (2) of the Health Act, 1953, are entitled to such supplies. The persons entitled by those Sections are maternity cases attending a doctor who is not the district medical officer, or as commonly called, the dispensary doctor. As now agreed, maternity cases are entitled to supplies of drugs and medicines from any pharmaceutical chemist who wishes to participate in the scheme, if the medicine is ordered by the doctor in question on a form as shown below. The doctor is responsible for deciding on the status of the patient, not the chemist, who requires only the appropriate official prescription form.

"The chemist contracts into the scheme by acceptance of the terms set out below. The patient gets supplies only during the period of six months before a birth, and then for the mother and child only until the infant is six weeks old. The scheme is for a small group of the existing dispensary patients and is not likely to result, on the present birth-rate figures, in a large number of prescriptions for individual pharmacists. It is, however, important for chemists to co-operate with the small numbers affected and give

first-class service, in order to prove to the State, a contention which the Society and the Association have held since their inception, that the pharmaceutical chemists should be the only vendors and dispensers of drugs and medicines, and that the existing chemists' shops can give a better service than the dispensaries. The scheme is also important from the angle that any future elaboration of the State health scheme would be through pharmaceutical chemists if the newly agreed scheme works. The Minister has agreed that the terms and conditions relating to the present group are without prejudice to any future agreements that might be negotiated for other groups. The present agreement, therefore, is not to be taken as a precedent, and does not tie the hands of the pharmaceutical negotiators on terms and conditions for the better-off sections of the community."

### Terms of the Agreement

The terms of the agreement are as follows:—

The basis of the present scheme, which is open to revision by the Minister or the pharmaceutical chemists' representatives after a limited trial period, and as agreed with the Department of Health for operation forthwith, is as follows:—

1. Medicines for persons in the lower income group who, in accordance with Sections 16 (4) and 17 (2) of the Health Act, 1953, attend a doctor other than a district medical officer, will be supplied by any pharmaceutical chemist who wishes to participate in the scheme.

2. Doctors will be required to prescribe on a form supplied by the health authority such drugs and medicines as they consider necessary. A copy of the prescription form, suggested for use by the health authority, is shown below.

3. The prices that will be payable for medicines supplied under the scheme will be as follows:—

*Compounded Medicines:* Cost plus 33½ per cent., plus container fee of twopence, plus dispensing fee of 1s. 6d. *Non-Compounded Medicines:* Cost plus 33½ per cent. (minimum fee of one shilling). Cost for the purpose of this paragraph will be taken as (a) In the case of proprietary preparations the current price ex Irish wholesale chemist for such units as may be agreed upon between the Irish Drug Association and the Minister for Health; and (b) In the case of non-proprietary preparations the net wholesale price set out in a manufacturer's list, the list and the units on which payment will be based to be agreed upon between the Irish Drug Association and the Minister for Health. The container fee will be payable in all cases, irrespective of the type of container supplied. Non-compounded medicines will include all medicines which are not subjected to a phar-

maceutical process by the chemist and will include standard preparations of the British Pharmacopoeia or British Pharmaceutical Codex (or other accepted volume of standards).

4. All prescriptions will be "priced" by a "drug pricing bureau" to be set up by the Irish Drug Association. Checks will be made by the Department on the prices determined by the drug pricing bureau. Health Authorities, if they so desire, may also check prices determined by the bureau.

5. Chemists participating in the scheme should send prescriptions received by them to the Irish Drug Association Pricing Bureau, 27 Merrion Square, Dublin. The bureau will indicate the appropriate price for each prescription and return the prescriptions to the chemist, who should then send them to the appropriate Health Authority with his claim for payment.

6. The scheme applies only to medicines and to surgical dressings and minor appliances (e.g., eye glasses and eye droppers) used by patients in connection with the administration of medicines and drugs supplied under the scheme. Separate arrangements for the supply of appliances and obstetrical requisites (other than medicines) will be made by the Health Authorities.

7. The scheme applies only in existing circumstances and will be subject to review in the event of any material change in the classes of persons to be supplied with medicines. The Pharmaceutical Society of Ireland, The Irish Drug Association, or the Minister for Health may seek a review of the scheme when experience in its operation has been obtained.

### PRESCRIPTION FORM (Copy)

Name of Health Authority: .....  
Patient's Name: .....  
Address: .....  
Date: .....

For use only by  
Pricing Bureau

.....  
Signature of Medical Practitioner.

Chemist's Name and Address: .....

NOTES: (To be printed on the back of the prescription form).

1. This form should be used only for the ordering of drugs, medicines and appliances prescribed by a medical practitioner, who is not a district medical officer, for patients being treated by him under an agreement entered into by him in accordance with the Maternity and Child Welfare Health Services Regulations, 1954 (as amended).

2. Prescriptions for drugs, medicines, surgical dressings and minor appliances used by patients in connection with the administration of medicines supplied under the scheme should be given to the patient,

or someone on his behalf, who may take them to any chemist who has agreed to supply medicines on behalf of the Health Authority.

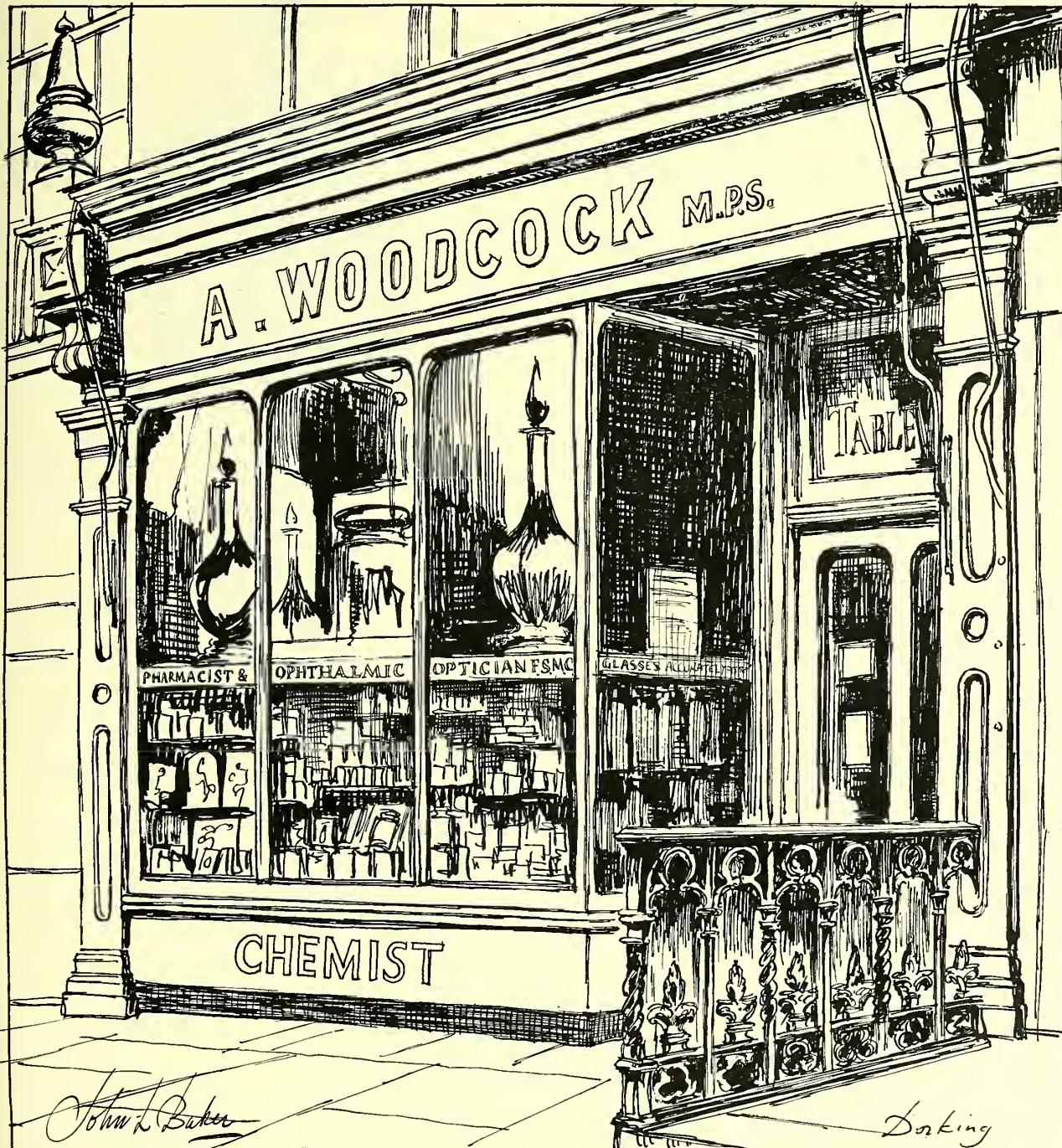
3. The chemist should supply the item free of charge. He should *retain the pre-*

*scription* and forward it to the Drug Pricing Bureau.

4. Prescriptions for appliances (not covered by paragraph 2) should be forwarded to the Health Authority which will make arrangements for supply.

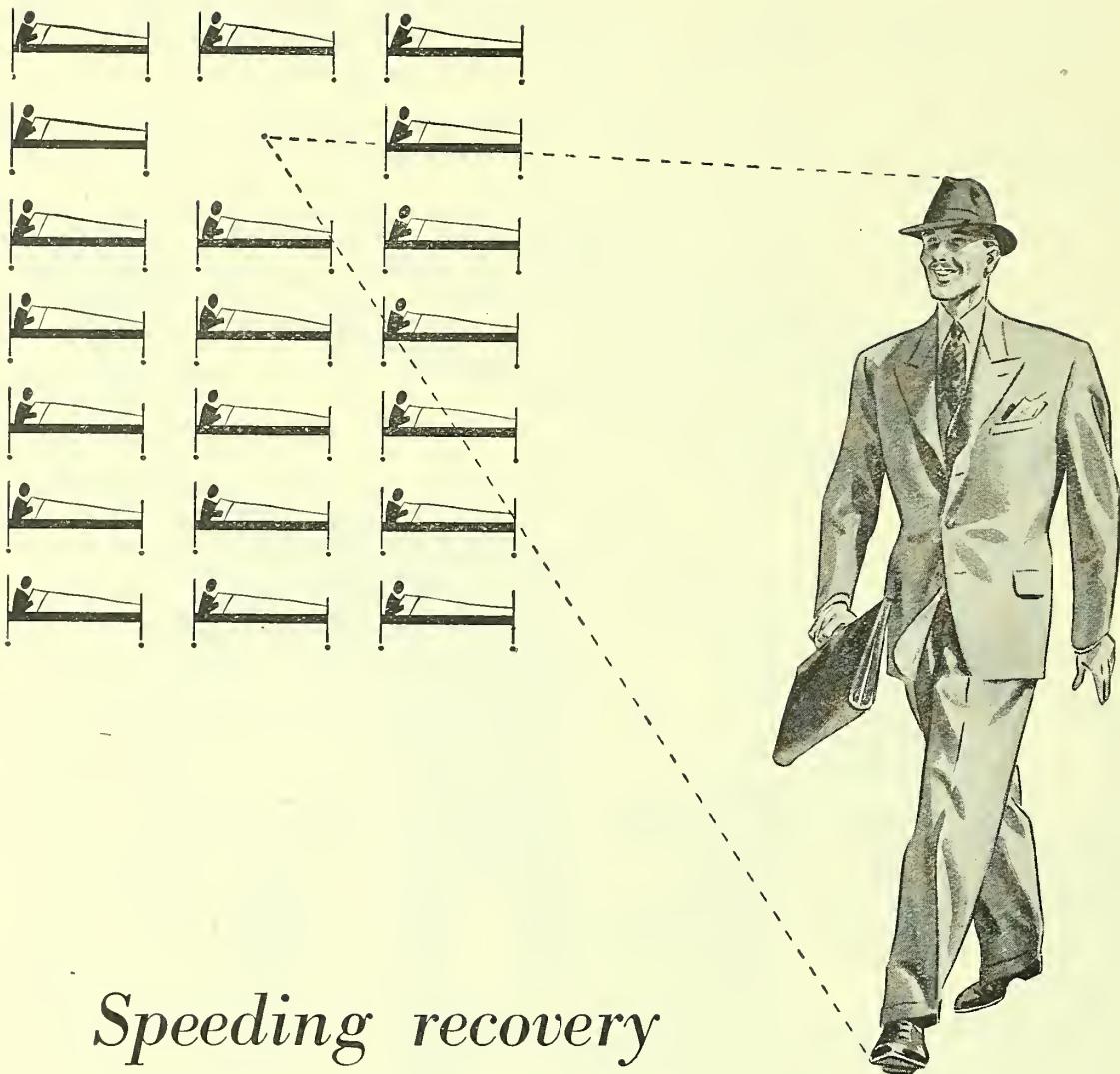
5. Where the doctor signing the prescription is not the doctor who has entered into an agreement for the care of the patient (e.g., in the case of a locum) he should give the name of the doctor on whose behalf he is acting.

## PHARMACIES OF BRITAIN—27



### A PHARMACY SINCE 1870

THE pharmacy of Alan Woodcock, Dorking, forms part of a building formerly known as the Dutch House, built in the High Street about three hundred years ago by Dutch traders engaged in the wool export trade. The premises have been a pharmacy since 1870, when a business was established there by a Mr. Doubleday, who also practised dentistry on the premises (a previous owner was an early practitioner in x-rays). Mr. Woodcock has been in occupation of the premises for the last twenty years.



## Speeding recovery

Almost every illness leaves behind it the problem of enervation. In Metatone the appetite-promoting properties of Vitamin B<sub>1</sub> are combined with the toning influence of the glycerophosphates upon the nervous system. Pleasant-flavoured Metatone can be given safely during pregnancy and lactation and is also an excellent tonic for children.

### FORMULA

*Each fluid ounce of Metatone contains:*

Vitamin B <sub>1</sub>	3 mgm.
Calcium Glycerophosphate	4 gr.
Potassium Glycerophosphate	4 gr.
Sodium Glycerophosphate	2 gr.
Manganese Glycerophosphate	½ gr.
Strychnine Glycerophosphate	8/200gr.

# METATONE

**PARKE, DAVIS & Company Limited** *Inc. U.S.A.*

HOUNSLOW, MIDDLESEX Tel.: HOUNslow 2361



# THE CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at  
28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMUS ESTRAND, LONDON"

## Attack on Fair Prices

SOME three weeks ago the Proprietary Articles Trade Association began receiving complaints from chemists about a new "supermarket" at Edgware, Middlesex, in which various branded articles such as tooth-pastes were being sold at cut prices. The Association checked on those complaints by test purchases and found them valid. The assistant secretary of the Association thereupon sought and obtained an interview with a director of Express Supermarkets, Ltd., at which the P.A.T.A. system was explained. On the refusal of the director to stop the practice of selling those articles below their fixed prices a formal letter was sent to the company registering the complaint. That letter was of no avail and on August 7 local newspaper advertising of five tooth-pastes at cut prices commenced. The first director having gone on holiday, another director of the company was contacted by the Association and interviewed by the representative of a large manufacturer. About August 12 that director informed the secretary of the P.A.T.A. that the advertisements and the cut prices were being withdrawn.

So the affair might have ended but five days later on August 17 the *Daily Express* printed a story headed: "Makers kill plan to cut prices." According to the report that followed, a plan by Express Supermarkets, Ltd., to put branded goods in the shops at coppers below marked prices had been killed by manufacturers. The Proprietary Articles Trade Association had stepped in; "a phone call from its headquarters to Express Supermarkets was enough." The combine had been told to restore the old prices or lose its supplies. A spokesman of Express Supermarkets, Ltd., had told the *Daily Express* that they had wanted to reduce prices, and self-service markets, by reducing overheads, had seemed the natural way. They felt that they should pass on the benefit to the customer.

The following day nearly the whole of the "opinion" column of the *Daily Express* was given over to an attack on price maintenance. After ordering its readers to understand that the cuts in prices by Express Supermarkets were possible because of the firm's lower overheads by the self-service system and pointing out that the firm had decided to give its customers a share in its bigger profits, the *Daily Express* explained that the company's efforts to cut the cost of living had been brought to nothing because the Proprietary Articles Trade Association had served a blunt warning: Restore the prices, or your supplies of all

goods made by this association will be stopped. The *Daily Express* concluded by urging that price rings and monopolistic organisations that kept costs up should be stamped right out of the nation's commercial system.

The same day as the editorial appeared, the secretary of the Proprietary Articles Trade Association (Mr. H. E. Chapman) wrote to the *Daily Express*, commenting on it, but it was not until the following Monday (August 23) and after much badgering of the newspaper that the following points abstracted (we are informed) from the letter were published:—

References to the Proprietary Articles Trade Association in *Daily Express* "Opinion" call for some comment. Manufacturer members' views on fixed selling prices are:—

1. That distributors' margins on well-advertised branded goods are much smaller than those on non-advertised articles.

2. If price cutting once again becomes rampant, then serious hardship and even ruin will occur among distributors.

The Trades Union Congress view on the banning of the fixed-price system is that the powerful chain stores could survive while the smaller man would fall victim to cut-throat competition. The little shopkeeper would not be the only sufferer. His workers would lose their jobs and the public would have fewer shops to choose from.

This association does not exact fines, has no interest in monopolistic practices, and is not concerned with price rings.

The *Daily Express* has been campaigning for some time on the subject of lower prices and in its leader suggests that in this land of full employment the pressing need is for lower prices. As the secretary of the P.A.T.A. shows, there might be substantially less full employment in the retail trade if the *Daily Express* had its way. Its ill-informed leading article paints a picture of an all-powerful trade association standing between its readers and a lower cost of living, and pitted against a public-spirited company. We should certainly hesitate to deny that Express Supermarkets, Ltd., are public spirited but we should imagine that their policies are more likely to be designed to increase their sales than to reduce the cost of living. Remembering the ruinous newspaper "wars" of the 1930's one would think that a national newspaper would be unlikely to advocate a policy of unbridled competition and would rather agree with the secretary of the P.A.T.A. who has said, commenting on the present case: "Manufacturers of these branded products and the general body of retail distributors (who cannot possibly afford to sell these products at less than the prices fixed by the manufacturer) will welcome the cessation of this uneconomic price cutting which in the long run would have prejudiced rather than promoted the interests of the shopper." At any rate, retail pharmacists will appreciate the stand that the P.A.T.A. has made on this occasion and will perhaps reciprocate with an added co-operation.

A more insidious attack on fair prices is mentioned in the July issue of the *P.A.T.A. Quarterly Record*. It gives the melancholy information that price-cutting of serious proportions has been in evidence recently in south-east London, with serious effect on many pharmacists. As if that were not bad enough, it goes on to state that "there is reason to believe that some retail chemists may, wittingly or unwittingly, be assisting the cutters." Any who did such things intentionally would be doing so from short memory or in ignorance, for the "bad old days" were so chaotically unfortunate for retail chemists that nobody with any awareness of them could wish their return. Against unintentional supply to price-cutters or their agents it is most necessary to be

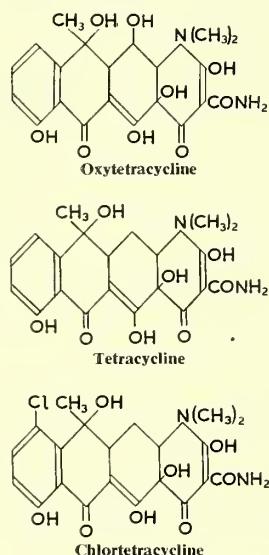
on the alert so as never to be taken in. The tactic of the would-be "black" buyers appears to be to try and buy at a discount and if that is not successful to offer a commission to the chemist who is prepared to sell at a price that allows resale below standard retail price. The one sure method of circumventing such

leakages is never to sell at below that price. There may be some legitimate and *bona-fide* exceptions to that rule, but in case of the slightest doubt the safest way is to seek the advice of the Proprietary Articles Trade Association itself. Otherwise the "good egg" may hatch into something with a lethal sting.

# TETRACYCLINE

BY PETER COOPER, F.P.S., F.C.S.

In October 1953, at a symposium on antibiotics held in Washington, ten papers that were read on the subject of a new antibiotic, tetracycline, aroused considerable interest. This compound is structurally the parent molecule from which both chlortetracycline (aureomycin) and oxytetracycline (terramycin) are derived, although its discovery has come much later than that of its relatives, now established in clinical practice. The exact relationship between the three compounds may be seen from the accompanying formulas:



Tetracycline is produced either by the fermentation process or by the catalytic reduction of chlortetracycline. Originally it was isolated from a submerged aerated culture of some streptomycetes found in a sample of Texas soil, but its production on a large scale by fermentation is still rather inefficient, and research is still taking place into the elaboration of a suitable medium. The more economical method of production at present is to treat a non-aqueous solution of chlortetracycline with hydrogen and triethylamine in the presence of palladium catalyst; hydrochloric acid formed during the reaction is removed by the triethylamine. The addition of water to the reaction-mixture then precipitates the free tetracycline base in crystalline form. After recrystallising from methyl alcohol and water, the base is obtained in various degrees of hydration, and is standardised by dehydration, dissolved in *n*-butanol and combined with one mole of aqueous hydrochloric acid to yield the pure crystalline hydrochloride.

Tetracycline is a yellow crystalline compound, melting at 214° C.; it is odourless, bitter and readily soluble in water, acid and alkali. It is strongly laevorotatory; its specific rotation in 0.1N HCl (0.5 per cent. solution) is -258°, compared with chlortetracycline -240° and oxytetracycline -196°. Chemically it may be distinguished from its analogues by treatment with 2 per cent. *p*-dimethylamino-benzaldehyde in 20 per cent. HCl (Ehrlich's aldehyde reagent). After standing at room temperature for several hours, or after gentle prolonged heating, tetracycline gives an orange solution; chlortetracycline a primrose-yellow solution; oxy-

tetracycline a blue-green precipitate and blue-green supernatant liquid. The last colour-reaction is inhibited by tetracycline but not by chlortetracycline. Concentrated sulphuric acid gives a stable violet with tetracycline, a stable cherry red with the oxy-compound, and a purple changing rapidly to dark green with the chloro-compound. These compounds have been successfully separated by chromatography on paper strips.

In aqueous solution, and particularly in acid solution, tetracycline is considerably more stable than its relatives. Heating at 100° C. for fifteen minutes reduces the potency of its solutions by 45 per cent. at pH 2.5, by 55 per cent. at pH 7.0, and by 63 per cent. at pH 9.0. Under the same conditions the derivatives lose about 64 per cent. at pH 2.5 and are nearly inactivated in neutral or alkaline pH. Stored in a refrigerator at 5° C., solutions in water or saline retain their potency for at least three weeks; at room temperature they do not appear to deteriorate seriously within the first forty-eight hours.

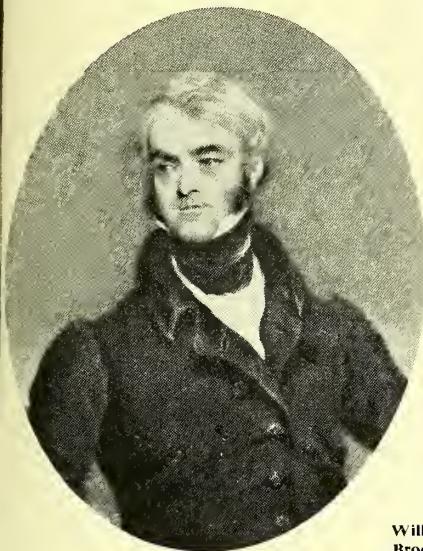
The antibacterial spectrum of tetracycline closely resembles that of its analogues, and it is often taken as equivalent to oxytetracycline for clinical purposes. Caution, however, has been advised in assuming the exact equivalence of the drugs, since in laboratory practice significant variations have been observed in the sensitivity of certain strains of *Staphylococcus*, *Streptococcus*, *Clostridium*, *Escherichia*, *Proteus*, *Brucella* and *Shigella* to them. Organisms resistant to one of these antibiotics show complete cross-resistance to the other two; it is therefore useless to employ tetracycline where resistance has been acquired to either of its analogues.

The great advantage of tetracycline is its comparative lack of adverse side-effects (flatulence, nausea, vomiting and diarrhoea) which are rarely serious enough to cause interruption of treatment, and slight in incidence. In addition, the chance of sensitising a patient is significantly reduced when the simpler molecule is employed. Erythema multiforme of the mucous membrane of mouth and pharynx has been reported as a rare sequel to tetracycline treatment. Capsules have been stated to produce a lower incidence of reactions than tablets. Tetracycline penetrates the normal blood-brain barrier easily, and produces higher concentrations than its analogues in the cerebrospinal fluid after oral or intravenous administration. It is rapidly excreted in the urine; urinary tract infections by sensitive organisms therefore respond well to treatment with it.

Tetracycline is available in the overseas market (though not yet in Britain) as Tetracycyn (Pfizer), Achromycin (Lederle) and Polycycline (Bristol Laboratories). It is marketed as tablets or oral suspension, sterile powder (buffered with ascorbic acid) for intravenous use, and as local applications. The shelf-life of those preparations is about two years. The normal oral dose of tetracycline for adults is 250 mgm. every six hours, and for children 10 to 20 mgm. per lb. body-weight daily in six-hourly divided doses. The intravenous dose is from 500 mgm. in twelve hours to 5000 mgm. in six hours. Eye ointments contain 5 mgm. per gm. of the hydrochloride; a 3 per cent. ointment has proved effective against pyogenic skin infections.

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*Lancet*, 1954, **1**, 664.  
*Antibiotics and Chemotherapy*, 1954, **4**, 375-79.  
*Antibiotics Annual*, 1953-54, 63-101.



William Brockedon

# Inventor of the Compressed Tablet

## WILLIAM BROCKEDON

Died on August 29 one hundred years ago

BY T. H. BISHOP, F.R.S.A.

We have received a specimen of bi-carbonate of potash compressed into the form of a pill by a process invented by Mr. Brockedon, and for which he has taken out a patent. We understand the process is applicable to the compression of a variety of other substances into a solid mass, without the intervention of gum or other adhesive material. Mr. Brockedon has promised to favour us with a detailed account of this process for publication in an early number.

The promised account does not seem to have been published. The history of the tablet industry is treated at length by Kebler in the *Journal of the American Pharmaceutical Association*.<sup>2</sup> Brockedon's production of a compressed tablet without the use of an adhesive was a real advance, and his potash tablet had a large sale in America. Eventually tablets superseded dosed powders, and with improved methods their large-scale manufacture became a practical proposition. There were important consequences. The retailer found it unnecessary to make up medicines which could be obtained ready-made from the manufacturer, while the public soon learned to appreciate that tablets were easy to take, and were an ideal method of medication during absence from home. One of the chief reasons for the popularity of tablets was the fact that drugs could be obtained in exact dosage from shops at home and abroad. Brockedon's interest in the compression of substances arose through the exhaustion of the graphite mines in Cumberland and the difficulty which he and fellow artists experienced in obtaining pencils free from grit. His method of reducing common black lead to powder, and reducing it *in vacuo*, produced an artificial plumbago for lead pencils of superior quality.

### Other Interests

As an authority on the Alps Brockedon wrote many guide books as well as more ambitious works such as his *Illustrations of the Passes of the Alps*, etc. The 109 engravings in this book were entirely by his own hand. Details of Brockedon's paintings and their location are given in the *Dictionary of National Biography*. He was elected a member of the Academies of Rome and Florence, and in 1830 was elected to membership of the Athenaeum. He was one of those responsible for the foundation of the Royal Geographical Society of London in 1830, and he served on its first council. In 1834 he was elected a fellow of the Royal Society. Brockedon was twice married, his first wife dying in 1829, and his second wife surviving him. In 1849 his only son, a favourite pupil of Brunel, died of tuberculosis. Brockedon never recovered from this blow, and on August 29, 1854, he died at his home, 29 Devonshire Street, Queen Square, Bloomsbury.

The achievements of William Brockedon were remarkable for one born in the obscurity of an eighteenth century market town in Devonshire. Without the advantages of a formal education he won distinction as artist, writer, and inventor. His books may be found in the larger libraries and bear witness to his talent as a writer. Examples of his paintings and drawings may be seen in English and Continental galleries and in the books he illustrated. The drug industry which flourishes in all parts of the world is a reminder of his inventive genius.

### REFERENCES

1. *Pharmaceutical Journal*, 1844, 3, 554.
2. L. F. Kebler: *Journal of the American Pharmaceutical Association*, 1914, 3, 820-48; 937-58; 1062-99.

### In the Steps of Hannibal

In 1824, Brockedon's inquiring mind prompted him to visit the Alps for the purpose of studying the route taken by Hannibal, and between then and 1829 he crossed the Alps fifty-eight times, passing into and out of Italy by more than forty different passes. A method of coating felt with vulcanised rubber as a substitute for corks and bungs which he patented in 1838, was followed by further patents for fibrous cores of stoppers and other means of retaining fluids in bottles. These inventions brought him into business relations with Charles MacIntosh and Co. of Manchester, and in 1845 he became a partner in that firm.

### The Compressed Tablet

On December 8, 1843, Brockedon was granted English Patent No. 9977, for "Shaping Pills, Lozenges and Black Lead by Pressure in Dies." In 1844 the *Pharmaceutical Journal*<sup>1</sup> announced:—

## HOSPITAL PHARMACY FORUM

## APPRENTICE OR STUDENT

THIS is the time of year when a number of students are seeking openings to receive their post-graduate training and many of them apply to the hospitals. Doubtless the hospital pharmacy should be a most suitable place in which to gain practical experience in dealing with patients and doctors and in performing a wide variety of pharmaceutical operations. In principle the practice of giving post-graduate training in hospitals should be encouraged.

## Practical Difficulties

In present circumstances, however, a number of difficulties arise which should cause one to hesitate before admitting such a student. The principal one is that of staffing. The Guild of Public Pharmacists laid down a ratio of qualified to unqualified staff which it regarded as reasonable to ensure that pharmaceutical work was adequately performed and supervised. In this scheme, the post-graduate student is not clearly defined. Certainly he is fitted by his educational attainment to be given tasks of a technical nature which would not be given in normal circumstances to an assistant in dispensing. On the other hand, his lack of experience of many of the commodities and of the techniques of large-scale work (as compared with dispensing exercises in the schools) require constant supervision and instruction. Where such supervision can be given and

the student retains a true *status pupillari* the post-graduate year is usually a happy and profitable one for all concerned.

Unhappily, the present shortage of pharmacists in the hospitals makes such a relationship impossible and students are being given responsibilities for which they are not yet fitted. In some cases the student would learn the ropes from an assistant in dispensing with no more than nominal instruction from the pharmacist. There is a temptation for the hard pressed pharmacist to take on a student in order to get some sort of assistance in these difficult times.

It is encouraging therefore that the Pharmaceutical Society is now watching the conditions of practical training more closely. It is not practicable to lay down rigid ratios of qualified personnel to students and assistants. Much depends on the organisation within each hospital. It is appropriate therefore that when application is made for the recognition of a pupil a representative of the Society's Council should inspect the conditions and satisfy himself that the pupil is likely to be given a sound introduction to the work. Ideally, a post-graduate student should be supernumerary to the normal establishment and the circumstances should be such that he is at all times working with and under the supervision of a pharmacist.

## CORRESPONDENCE

*Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.*

## DAIRY CLEANSERS

SIR,—In your issue of August 7, p. 145, under the heading "Topical Notes for the Agricultural Chemist," it is suggested that Bactergent is incompatible with hypochlorites and that pharmacists will have to be cautious when recommending the use of Bactergent. We wish to assure your contributor, and your readers, that there is no foundation for his fears. Bactergent has been subjected to a very thorough and exhaustive examination, both in the laboratory and under practical farm conditions. These tests have included the determination of the efficiency of mixtures of Bactergent and hypochlorite in all proportions from traces upwards. We have never, under any of the conditions examined, had any results which would suggest that either of the products was interfering with the activity of the other, our results indicating that the action of the two compounds is additive.

BERKHAMSTED

N. V. NEEDHAM,  
The Cooper Technical Bureau

## WHITLEYISM IN THE HEALTH SERVICE

SIR,—The report, in your issue of August 21, of Mr. Bryn Roberts' attack on Whitleyism as practised in the Health Service is of interest to hospital pharmacists. Having served on the Pharmaceutical Whitley Council (Committee C) for five years until last May, I can sympathise with Mr. Roberts in his outburst if I cannot agree with some of his conclusions. Although the management side consists of a number of "lay" representatives in addition to Ministry officials, it is true to say that the former are of little account on their own side. The Minister must have final responsibility for all decisions of the Whitley Councils, but Mr. Roberts is perhaps a little hard on him in that he makes no mention of the real ruling force of the Management Side—the Treasury. It is so obvious to those of us who have worked hard for our members that no amount of logical argument, no amount of factual evidence and no amount of genuine justification for a case can produce any result if our counterparts on the other side of the table are instructed by the Treasury that no money is available to meet such a claim. I do not agree with Mr. Roberts when he says that Health Service workers are urging that,

because of delays in fruitless negotiations, claims should be referred to arbitration after a single meeting of the Whitley Council. Pharmacists most certainly would not approve such an action since it is believed that the hand of the Treasury hovers over the Industrial Court even though it does not quite strangle it as it does the various Whitley Councils. Our own experience before the Industrial Court in 1949 taught us this bitter lesson. Although the management side's case was hopelessly weak and at times ridiculed by the members of the Court, the staff side's overwhelming victory became only a moral one when the terms of the award were published. As far as I can remember, no other staff side has fared much better at the hands of the Industrial Court. As Mr. Roberts says, the service is being run "on the cheap" and many skilled workers are leaving for more lucrative posts. One way to stop this degenerative process is for the government to make it possible for the Whitley Councils to function as their originator intended, so that all reasonable claims may be treated on merit and not by rule of thumb as dictated by the Treasury.

G. BRYAN, Chief Pharmacist,  
LONDON, W.1

THE MIDDLESEX HOSPITAL

## NEW BOOK

## History of Indian Pharmacy

G. P. SRIVASTAVA, M.PHARM, *Pindars, Ltd.*, 7 Lower Rawdon Street, Calcutta, 20. 9 x 5½ in. Pp. 256. Rs. 12 As. 8.

The author intended to write the history of Indian pharmacy in two parts: Part one comprising the ancient and mediæval pharmacy which in fact forms the substance of this book, and part two, the modern history. The latter part it is promised "will follow at an appropriate opportunity." The opening chapters deal with mythology; succeeding chapters are on the pre-Charaka period, the Charaka (or the pre-Buddhistic period), the post-Charaka period, and ending with the mediæval period. In those chapters mention is made of the important pharmaceutical personages of India and their works. In the concluding chapter the author shows India's pharmaceutical contribution to the world throughout the ages.

# JEREMY CLIFF

## APOTHECARY of Tenterden, 1721

BY PHILIP GEORGE, Fellow of Christ's College, Cambridge.

THE history of pharmacy presents a similar and related problem to that confronting the medical historian. Although "Anatomies" and treatises on chirurgery and medicine abound, there is remarkably little detailed information on the illnesses and diseases that occurred, how widespread they were, and how often people suffered from them; and although there are pharmacopeias in plenty from early in the sixteenth century onwards, there is scanty evidence of the number and range of drugs that a typical apothecary might have been called upon to compound.

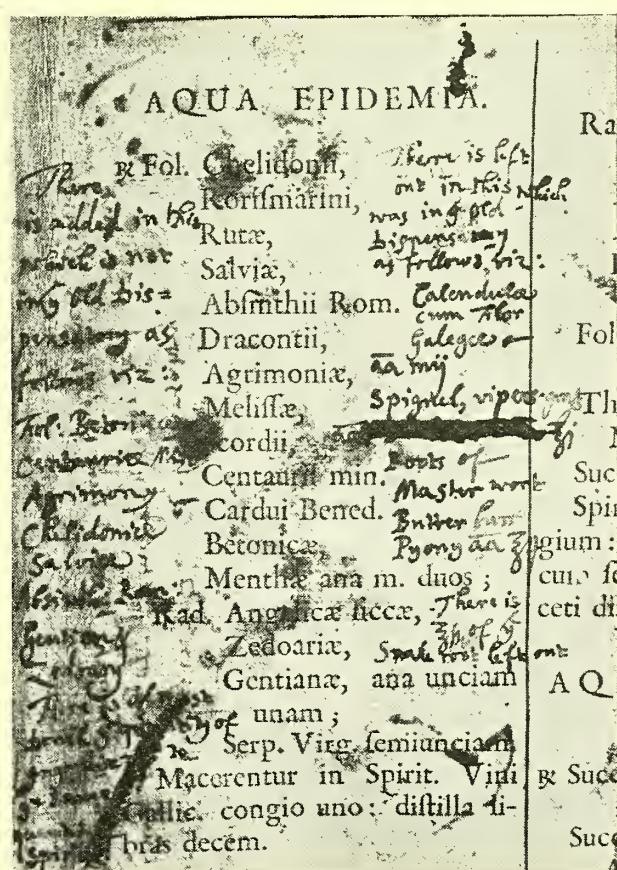
A copy of the London Pharmacopœia (1721), that once belonged to the apothecary Jeremy Cliff, has recently come to light, from which a good idea may be obtained of what a practice was like in a small country town at the beginning of the eighteenth century. Jeremy Cliff liked writing in his book. On the flyleaf he has copied out the "Orders to be Observed in the Workhouse in Tenterden in the County of Kent . . . and by the Officers concerned in it," adding at the end "These Orders were made in the Spring in 1724. But no Phisition settled to the House of the Poor of the Parish of Tenterden till the Vestry Chose me this present year 1726 at Easter last Past, Being Apr: the 10th: of a Sunday, and I were chosen next day Apr: the 11 1726. This Copye was taken by me, Jeremy Cliff, out of the Poor House Nov: the 9th. 1726, Apothecary of Tenterden." It was quite usual, if no physician was at hand, for an apothecary to take his place and give medical advice and treatment: in London, during the plague of 1665, a number of physicians left town, but many apothecaries stayed behind to tend the sick. The choice of Jeremy Cliff for that position suggests that he was well-respected, and his practice the most considerable in Tenterden.

It may be gathered that there was at least one other person dispensing drugs, for beside the prescription for *Emplastrum à Nostratibus* he has written "The widdow Burr makes it thus . . ." and the modified version follows. There is no means of telling whether she was a midwife or just a wise old woman, but the former seems more likely, for she used most of the appropriate simples, i.e. resin, white wax, deer suet, mastich, camphor and white wine, leaving out only the olibanum and turpentine. Of greater significance, however, is that Jeremy Cliff has written beside a large number of drugs "This made exactly as in the Old Dispensatory"—presumably that of 1677—or given full notes on how the recipe differed, what simples were omitted, what new simples had been introduced.

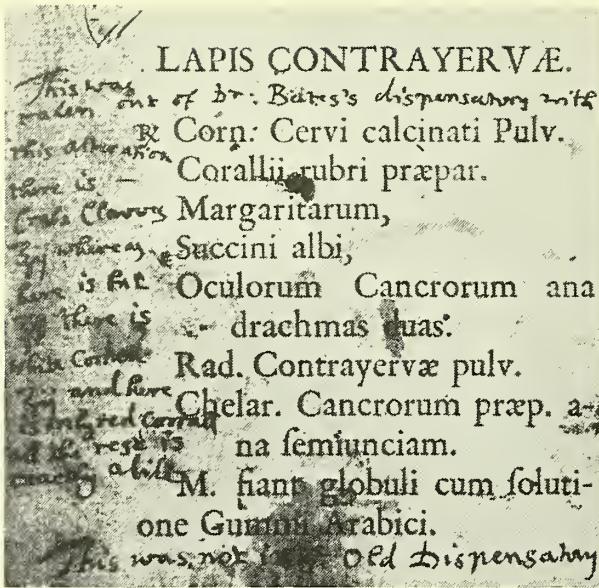
### The Prescriptions

It is a reasonable supposition that the Dispensatory preparations were the drugs he was accustomed to compound, and that when he acquired his new pharmacopœia he made the notes to ensure that he followed the correct prescription. The eighty-seven prescriptions he annotated in this way are listed in the table. In twenty-six instances no alteration had been made, but in a further forty-six there were changes. Examples are given in the illustrations showing what he wrote beside *Lapis Contrayervae* and *Aqua Epidemica*, one of the defences against the plague. He deliberately added in full the prescription for two drugs, *Oxymel Scilliticum Compositum Mesue* and *Electuarium Caryostinum*, from the previous edition that he had apparently known so well. Of the first he remarks "it is a good vomit and purg for women which have not been well cleansd after lyeing in etc.": and of the second he says very simply "I wonder how it came to be left out." This was not entirely true, for he had failed to observe that it

had been inserted with errata and omissions right at the end of the book. There are quite a number of personal touches of this kind. In the "Catalogus Simplicium Officinalium" by Cortex Peruanus, *China Chiae*, he has made jottings from "Water's description of the Isthmus of America Pag:60:98:99." They begin "Cortex Peru is the Bark of a Lusty Tall Tree Growing Both in the Islands and the Main in the West Indies, and the Isthmus of America, especially Peru on the West Side of Porte Scrivan. . . ." But more often in these asides he is concerned by the changes that the College of Physicians made. Beside *Diascordium* he adds "Here is allowed *Diacordium* to be us'd instead of the Clarified Honey, & the *Saccharum Rosatum* left out, which I take the leaving it out to be quite rong." Of the *Unguentum Adstringens* he writes ". . . but how will you be able to make it without you know how to make the oyle of wax, for it is not prescrib'd in this Dispensatory. The Oyle of Wax is made thus . . . (and then follows the method) . . . I wonder the Colledg have left it out." But a little below we find "I have wrong'd the Colledg for which I beg their pardon for you



Against the formula for *Aqua Epidemica* Cliff has written at the left: "There is added in this which is not in the old dispensatory as follows, viz.: Fol. Beberinae, *Contauriae*, *Astrimony*, *Chelidoniae*, *Salviae*, *Absinthi Rom.*, *Calendulae cum Aler*, *Dracontii*, *Galegei* . . . Fol. *Agromonia*, *aa mij*, *Melissæ*, *Spignel, vipers*, *Th* . . . *cordii*, *Centaurii min.*, *Roots of* *Master wort*, *Suc* . . . *Cardui-Bened.*, *Bitter burr*, *Spiss* . . . *Betonicae*, *Pyony aa 3ij*, *gium* : *Mentha aa m. duos*; *cui, se* . . . *Rad. Angelicae Ricæ*, *There is* *ceti di* . . . *Zedoaria*, *Snake root*, *one* . . . *Gentianæ, aa unciam*, *A Q* . . . *of unam*; *Serp. Vite semiunciam*, *g. Succ* . . . *Macorentur in Spirit. Vini* . . . *distilla li* . . . *congio uno*; *decem.* *Succ*



Cliff's comment is "This was taken out of Dr. Bates's dispensatory with this alteration there is Crabs Claws ij whereas here is i. There is white Corall 5ii and here is only red Corall all the rest is exactly alike. This was not in the old Dispensatory."

may see it described in pages 135:136 forward according as this is."

The method Cliff wrote out is worth repeating, for it is more detailed than the curt Latin of the pharmacopeia, and it gives a vivid picture of him at work. "With a Glass Retort in Ashes or Sand, mixing therewith also Sand or Ashes to make the oyle Ascend the better, Thibault advises to take five parts of Claye or Brick powder'd to one of wax melted, and makeing them into little balls to put them into a Glass Retort well luted, to which lute a Receiver, and giveing fire by degrees you have, first, flegme in white vapours, then Oyle in the same form, which being Condensed is a Red Stinking Oyle, and when Cold congeals into Butter as yellow as Gold; this work will last about 5 hours; a pound of wax will yield you fourteen ounces of Butter or Oyle and 5ii of flegme; you may Rectifie it by a little glass Retort in a sand furnace till it becomes White and Clear; it is counted a wonderfull Diuretick from 3 drops to six." The detail in his transcription of the old recipe for *Unguentum è Nicotiana, seu Peto* has the same personal touch. "... Bruis in a marble morter, add Red Wine 5iii, digest for a whole nighthe, then Boyle over a gentle fire continually stirring of it till the Wine is consumed, strain it of and add to it Clarified juice of Tobacco lb.i. Boyle again to the Consumption of the juice, add . . . etc." The reference to the French apothecary Thibaut, *Distillateur Ordinaire du Roy*, is quite interesting, for although Thibaut's book *Cours de Chymie* (Paris 1667) was translated into English in 1668 he was not so famous and his book not so well known as those of his compatriots Le Febure and Lemery. Nevertheless, it was fully in the tradition of pharmaceutical handbooks devoted to practical operations which had begun in France with Beguin's *Tyrocinum Chymicum* and continued in the books of Glaser, Le Febure and Lemery. Thibaut is mentioned amongst these and other authorities in the unofficial dispensaries that were widely used in England from 1680 until 1750, but Jeremy Cliff, it seems, knew his book at first hand.

There is little doubt that Jeremy Cliff used the unofficial dispensaries, for of the nine prescriptions he noted as not appearing in the old edition (those denoted by an asterisk in the list) three he recognised as being taken from Bates and one from Shipton's *Additimenta*. The former is a collection of formulas published by the druggist

James Shipton of Hatton Garden, which are said to have been prescribed by Dr. George Bate, who in turn had been physician to Charles I, Oliver Cromwell and Charles II. The *Additimenta* are a series of prescriptions, which were "in daily use among London doctors," that Shipton added at the end of an abridged version of the London pharmacopeia, which he first published in 1689, with a third edition in 1699.

The notes on the quantities of drugs Jeremy Cliff made, or was accustomed to make, provide a particularly interesting feature of his book. There are eight in all and they read as follows:—

- (a) *Syrupus de Spina Cervina*: Sept 22 1737 I had 32 lb. of juice.\*
- (b) *Species Hierae Picrae*: the quantity I make is 5xl 5iii.
- (c) *Theriaca Andromachi*: I make alwayes the whole quantity & half again, as then the weight of the species should be lb. 4 5xi.
- (d) *Theriaca Londinensis*: I make double the quantity, lb. 1 5xiiii (of simples) Syr. de Mecon lb. v 5iii, In all lb. vii 54.
- (e) *Unguentum Basilicon Minus*: I make it thus (a modified recipe follows weighing lb. 6 54).
- (f) *Diachylon Magnum cum Gummi*: I make of this empl. Mag. cu: Gu about lb. v weight once a year.
- (g) *Emplastrum de Minio*: Plumb lb. ii Ol: lb. iv Resin 54 (a modified recipe).
- (h) *Emplastrum Sticticum*: The quantity I make of this, is lb. iii 5x, I make double the quant.

Two of the most famous remedies of classical antiquity are amongst them, *Hiera Picra* and *Theriaca Andromachi*, and the ointment (e) with the two plasters (f and g) had been widely used in the treatment of wounds of various kinds since the middle ages, appearing frequently in the books of chirurgery and *Wundartznei*.

The range and the number of prescriptions listed in the table appear quite impressive for an apothecary in a small country town, eighty-seven out of a possible total of about 464 coming to just under 20 per cent. In some categories the percentage is much higher—36 per cent. of *Unguentum Simpliciora*, 34 per cent. of *Emplastrum*, 29 per cent. of *Electuaria* and 42 per cent. of *Aquae & Spiritus Stillatiae Compositae*. These pages of the pharmacopeia bear witness to the popularity of the remedies: the fats and waxes of the plasters and ointments have made them look like parchment. In contrast, the sections on *Olea Chymica* and *Praeparatae Chymicae* are almost as fresh as a new book. Another fifty years or so were to elapse before the chymical remedies of Paracelsus and his followers were to oust the drugs of vegetable origin that had been used for so long.

### The Simples

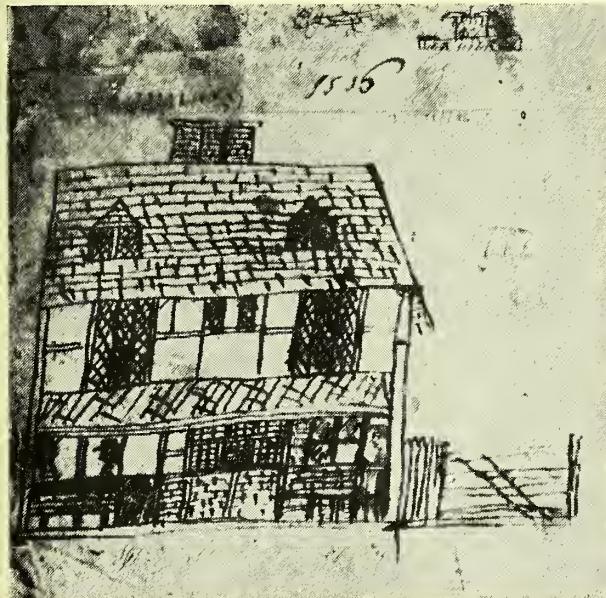
The eighty-seven prescriptions listed in the table were not, however, the most straightforward to compound. In fact, they include some of the most complex mixtures—*Spiritus Lavendulae* with twenty-eight ingredients, *Unguentum Nervinum* with twenty, *Theriaca Londinensis* with thirty and, outstripping them all, *Theriaca Andromachi* with sixty-five, of which four were themselves compounded drugs! Jeremy Cliff needed about 265 simples to make them, 30 per cent. of the total listed in the Catalogus, and like those in the Catalogus the large majority, about 85 per cent., were from plants, trees and vegetables. Only 9 per cent. came from animals, and 6 per cent. were mineral substances, as we would expect to find from the almost complete absence of the chymical remedies.

Such figures speak well for his diligence and devotion to his calling: and we must remember that about 105 of these simples, 40 per cent., came from abroad—the Middle East, the Far East, the West Indies and the Americas. Thus our picture of Jeremy Cliff is not one of a country herbalist, relying on the plants that grew in his locality, but of an apothecary like those in the large European cities, familiar

\* This may be the son, see later.

with many drugs of foreign origin, and accustomed to using them. It is an interesting reflection on the ramifications of the trade in drugs and spices. We can see a suggestion, too, that through his contacts with the merchants he was prepared to oblige his friends in another, more humble fashion: "Coaco Tea lb ii to send to Mrs: Osborn."

Much more could be said of the pharmacopœia. The majority of the prescriptions, and particularly those in the list, had had a long history. Their originators were Galen himself, the Arabian and Persian doctors Rhazes and Avicenna, Mesue, the apothecaries of the great mediæval medical school at Salerno in Italy, and later the physicians of Renaissance Europe. But of Jeremy Cliff there remains little to add. His ownership inscription reads "Jeremia Cliff Liber. Decimo Quinto Die Aprilis, Anno 1721." He must have acquired it very soon after publication, for the Royal Privilege and Licence granted to the College is dated only January 17. Elsewhere he signs his name and adds "Senr:"; above this there is "Jer Cliff 1737" in a different hand, and on other pages Edward Cliff, and E.C. 1731; so it looks as if there were two sons who followed their father in his profession, and went on administering to the sick in the little town of Tenterden.



A "doodle" on the back of the pharmacopœia appears to represent two shops.

#### PREScriptions ANNOTATED BY JEREMY CLIFF IN HIS COPY OF THE PHARMACOPœIA LONDINENSIS (1721)

\* Indicates a prescription not in the previous edition (1677)

#### *Spiritus & Aquæ Stillatitiae Compositæ*

Aq. Absinthia Minus Comp., Aq. Absinthii Magis Comp., Sp. Lavendulae, Sp. Castorei, Aq. Paeoniae Comp., Aq. Epidemias, Aq. Theriacalis, Aq. Bryoniae, Aq. Mirabilis, Aq. Doct. Stephani, Aq. Lactis Alexiteria,\* Aq. Cinnamomi Fortis.

#### *Tincturæ & Vinum Medicata*

Tinc. Croci, Tinc. Castorei, Laudanum liquidum Sydenhami,\* Elixir Salutis,\* Vinum Benedictum.

#### *Syrupi, Melita & Oxymelita, Conservæ & Saccharæ*

Syr. de Berberis, Syr. Infusionis Fl. Caryophyllum, Syr. è Succi Citriorum, Syr. de Meconio sive Diacodium, Syr. de Papavare Erratico, Syr. de Spina Cervina, Oxymel Scilliticum, (Oxymel Scilliticum Compositum Mesue), Conservæ, Saccharum Hordeatum, Saccharum Rosatum Tabulatum.

#### *Species sive Pulveres*

Pul. è Chelis Cancerorum Comp., Pul. Radicarum Ari Comp., Lapis Contrayervae,\* Sp. Diatragacanthi Frigidae, Sp. Hierae Picrae.

#### *Electuaria Alterantia, & Purgantia*

Confectio Alkermes, Diascordium, Mithridatum, Theriaca Andromachi, Theriaca Londinensis, El. Lenitivum, El. Caryostinum, Hiera Diacolocynthidis.

#### *Plulæ & Trochisci*

Pil. Cocciae Majores, Pil. Cocciae Minores, Pil. Ruffi sive Communes, Pil. Rudii, Pil. è Styrae, Agaricus Trochiscatus, Tr. Albi Rhasis, Tr. Hedychroï Galeni ad Theriacam, Tr. de Myrrha, Tr. de Scilla ad Theriacum, Tr. Alhandel.

#### *Olea Simplicia & Composita per Infusionem vel Decoctionem*

Ol. Chamaelinum, Ol. Sambucinum, Ol. Iriatum, Ol. Hyperici Comp., Balsamum Locatelli.

#### *Unguent Simpliciora & Composita*

Ung. Album, Ung. Aegyptiacum Magis Comp., Ung. è Gummi Elemi sive Linimentum Arcæi, Ung. Basilicon Minus, Ung. Coeruleum,\* Ung. Dialthæacæ, Ung. de Minio Camphoratum, Ung. è Nicotiana seu Peto, Ung. Nutritum, Ung. Rubrum Dessimativum, Ung. Tutiac, Ung. Nervinum, Ung. Populneum, Ung. Adstringens.

#### *Emplastræ*

Diachylon Simplex, Diachylon Magnum, Diachylon Magnum cum Gummi, Emp. Epispasticum Primum, Emp. Epispasticum Secundum,\* Pasta Epispastica,\* Emp. à Nostratibus Flos Unguentorum Dictum, Emp. de Meliloti Simplex, Emp. de Minio, Emp. Oxycroceum, Emp. Sticticum.

#### *Olea & Medicamenta Chymica*

Ol. Cera, Elixir Vitrioli Mysichti,\* Elixir Proprietatis, Elixir Proprietatis Helmontii,\* Lapis seu Sal Prunellæ.

The author thanks his colleague, Mr. G. H. F. Fraser, for providing the photographs for the illustrations.

## MEDICAL ABSTRACTS

#### CORTISOL IN RHEUMATOID DISEASE

WEST and Newns (*Lancet*, 1954, 2, 168) transferred to cortisol (the "free alcohol" of hydrocortisone) twenty-two patients suffering from rheumatoid disease who had been under cortisone acetate therapy for from one to three years. With an effective dose 10 per cent. less by weight they found a significantly greater antirheumatic effect. Clinical and laboratory findings during the last three months on cortisone acetate and the first three months on cortisol were compared and the conclusion reached that cortisol was a more potent antirheumatic agent but that it caused an increase in undesirable side-effects.

#### SULPHONAMIDE AS BRONCHITIS PROPHYLACTIC

No evidence was discovered by Kilpatrick and Oldham (*British Medical Journal*, 1954, 2, 385) that sulphonamide was effective in preventing acute exacerbations of "winter bronchitis" in a trial in which forty-two subjects were given 0.5 gm. of sulphadimidine three times a day during the winter months and forty-one acted as controls. The trial extended over the winters of 1951-52 and 1952-53. The subjects were composed of three similar groups. In only one group was there any suggestion that the treated subjects did better than the controls. In that group two of the treated subjects had an acute unmodified attack of bronchitis, eleven were not attacked, while seven controls were attacked against seven not attacked. For all groups it was found that twelve treated and fourteen control subjects had an acute attack, and thirty treated and twenty-seven control subjects were not so attacked. The authors point out that all suggestion of an effect of treatment was lacking, when acute unmodified attacks and modified, less severe attacks of bronchitis were considered together. Twenty-five treated and twenty-four control subjects had such attacks while seventeen treated and seventeen control subjects had no such attacks. The average number of acute unmodified attacks per man was 0.39 for the controls and 0.31 for the treated, a difference that was not statistically significant. When modified less severe attacks were included, the distribution was even more alike.

## INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

ASPIRIN A	PLAYTEX baby pants
NEOPLASTIC bandages	NYLON shaving brush

# Source, characters and properties of RAUWOLFIA SERPENTINA

ALTHOUGH the use of drugs obtained from botanical sources has been receding during the past every now and then following the published reports of research workers, The botanical drug that has attracted world-wide attention most recently, *Rauwolfia serpentina*, has been used medicinally in India for hundreds of years for a variety of complaints. Its hypotensive properties were discovered only within recent years.

Though the genus *rauwolfia* includes nearly forty plants, *R. serpentina* Benth. Linn. (*Ophioxylon serpentinum* Linn) is the only species that is represented throughout India. It belongs to the natural order Apocynaceae and is termed in Sanskrit works "sarpagandha." The plant grows at an altitude of upwards of 4,000 ft. in the tropical Himalayas, the plains, Khasi hills of Assam, the Deccan plateau, the Ghats and Travancore.<sup>1</sup> It grows wild in certain districts of North Bihar.<sup>2</sup> The plant is a small, erect shrub rarely reaching

visible to the naked eye and remarkably starchy. The odour of the fresh root is acrid and the taste very bitter.<sup>3</sup>

In addition to *R. serpentina*, *R. canescens* Linn., *R. densiflora*, *R. decurva*, *R. micrantha* and *R. Beddomei* have been encountered in Assam, Dcccan and Travancore. *R. serpentina* has been found to occur rarely in Indonesia below 1,800 metres and its cultivation has been found difficult.<sup>4</sup> The therapeutical properties, especially of the roots, of the plant have great renown locally, though its use in Indonesia is mainly restricted to veterinary practice in view of the fear of its poisonous nature. In South Africa, the Pondos use the bark of *R. natalensis* sond, for abdominal troubles and the Zulus use it as an application to the skin in measles, urticaria and other rashes.<sup>5</sup> *R. vomitoria* and *R. obscura* are also found in Africa and from them alstonine has been isolated recently.<sup>6</sup> At least one species (*R. heterophylla* Roem and Schult) is indigenous to Central and South America. It is reported from Guatemala and Colombia.<sup>7</sup>

In India the collection of the plant *R. serpentina* and its root is seasonal and is not done on any organised basis. The whole plant is dried in shade and is available for sale in that condition in indigenous drug stores of the country under the curious name in Bihar and Uttar Pradesh of "Pagal-ka-Dawa" (cure for insanity). Considerable quantities of the root and plant were exported, until recently, though actual statistics are not available. The discovery of the properties of reserpine, an alkaloid obtained from the roots, has created a large demand from foreign pharmaceutical firms who have attempted to buy the entire stocks of dried roots from dealers in South India. At present there is a ban on the export of the crude drug from India. The ban at first related only to *R. serpentina* but later it was extended to other varieties of *rauwolfia*.

The Ministry of Commerce and Industry of the Government of India has received representations from exporters as well as indigenous manufacturers and a good deal of confusion exists there at present. It is assumed that the parties who have brought about the ban have in mind the possibility of exporting an extract as being more profitable to them. Meanwhile it is hoped that the Government will come to a decision soon and announce it.

The gradation of roots according to different diameters is a common practice in the drug market, and there is a difference of opinion regarding the presence of maximum percentage of alkaloids in thicker or thinner roots. In *R. serpentina* it was found that the roots of thinner diameters possessed a greater percentage of alkaloids, and in consequence had a greater commercial value than the thicker ones.<sup>10</sup> In the thinner roots the number of oleoresin cavities, which are the seat of formation of alkaloids, were greater in number than in the thicker roots. Considerable quantities of starch were also present in the thicker roots, and that either obliterated the oleoresin cells or caused degenerative changes in a large number of them.

## Medicinal Applications in India

The dried and powdered plant or root is administered orally with honey or as a decoction. In Travancore the plant is boiled with oil and the medicated oil used. The specific name of the plant is drawn from its reputed efficacy in curing the poisonous effects of snake bite and scorpion sting. In the bites of poisonous reptiles, a decoction is ordered to the extent of a pint in twenty-four hours and the powder is applied externally to the injured part. A decoction of the root is employed in labour to increase uterine contraction. In Bombay State the root is used along with other roots in cholera, colic, insanity and epilepsy.



RAUWOLFIA SERPENTINA BENTH.  
(After Kirtikar and Basu)

3 ft. in the Bombay State. It has a pale bark, and the leaves are in whorls of three—thin, glabrous and bright green in colour on the upper surface. The flowers are white, often tinged with violet in many-flowered irregular corymbose cymes. The inflorescence of the plant, with its red pedicels, calyx and white corolla, is striking.<sup>9</sup> The flowers appear in May-June, and the fruits in July-August.<sup>4</sup> The root is crooked, tapering, and about  $\frac{1}{2}$  in. in diameter. The bark is soft, light brown, and marked by longitudinal fissures: the wood brittle, showing rings and medullary rays



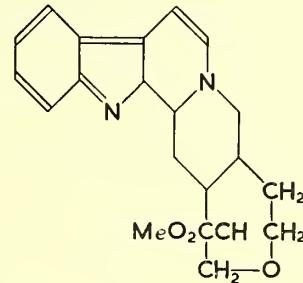
Broken roots of *R. serpentina* as received from India. The thinner roots are preferred in commerce as they are said to contain a higher alkaloidal content than the thicker roots.

The juice of the leaves is instilled into the eyes as a remedy for the removal of opacities of the cornea; the petiole also is used in medicine. It was only in about the year 1890 that the drug was used as a remedy for insomnia and hypochondria but there is no mention of that property in any book on Indian medicinal plants. The hypnotic action of the drug appears to have long been known to the poorer classes of people in Bihar, who gave it to their children for inducing sleep. Regular trials showed that dosages of gr. 20-30 of the powdered root twice daily had sedative effects and reduced the blood pressure.

### The Alkaloids

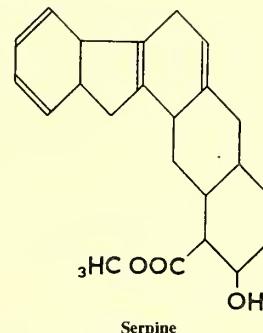
The chemistry of the alkaloids of *R. serpentina*, which was examined about twenty years ago, has seen many claims and counter-claims concerning the active principle. It has not yet been elucidated to the satisfaction of all organic chemists. Reserpine, an alkaloid present in the root, was found to have hypnotic and hypotensive properties and the announcement of its isolation by the Swiss chemists Schlittler and Bein was followed by claims for some of the other alkaloids. The presence of five alkaloids in *R. serpentina* was first reported by Siddiqui.<sup>11</sup> The five have been classified into two groups: the ajmaline group of weak bases containing ajmaline  $C_{20}H_{26}N_2O_2$ , ajmalanine  $C_{20}H_{26}O_2N_2$  and ajmicine; and the serpentine group of strong bases containing serpentine  $C_{20}H_{20}O_3N_2$  and serpentinine. Though rauwolfinine was announced in 1932, it was later proved to be identical with Siddiqui's ajmaline. Siddiqui subsequently reported that a variety of *R. serpentina* contained two other isomers of ajmaline, iso-ajmaline and neoajmaline. The Swiss chemists have so far isolated three major alkaloids: ajmaline, serpentine and reserpine.

Serpentine was isolated by Schlittler and Schwarz<sup>12</sup> in a two-step procedure. The powdered roots were moistened with ammonium hydroxide and extracted with  $(CH_2)_2Cl_2$ , the extract containing the weak base ajmaline; one kilo of root yielded 1-2 gm. of crystalline ajmaline. The powdered root, when dried and percolated with methyl alcohol and ethyl alcohol, produced an extract containing the serpentine strong bases; 56 kilos of dried root gave finally 11.3 gm. serpentine nitrate (m.p. 166-68°. Pure, 170-72°). The empirical formula of serpentine was difficult to arrive at. Whilst at first the formula  $C_{20}H_{26}O_3N_2$  was assigned, the product crystallised from ammonium hydroxide analysed to  $C_{21}H_{22}O_3N_2$ . It is still not certain whether the free base contains 20 or 21 carbon atoms. As a sequel to studies by ultra-violet, infra-red and other methods, the following structure was assigned to serpentine.



Serpentine

Isolation has been announced of serpine, a new isomer of yohimbine, by Asima, Chatterjee and Bose.<sup>13</sup> The new serpine,  $C_{21}H_{26}O_3N_2$  (m.p. 213°) (dec), is an indole alkaloid and has been proved to be a new stereoisomer of yohimbine  $C_{21}H_{26}O_3N_2$ , the alkaloid of *Pausinystalia yohimba*. It has the following structure.

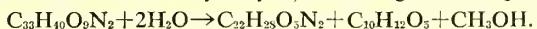


Serpine

Serpine is markedly hypotensive and has a strong sympatheticolytic action like yohimbine. The same authors have also reported the presence of a new weak base provisionally called rauwolfinine (m.p. 235-36°) (dec). It possesses antihypertensive properties.<sup>14</sup>

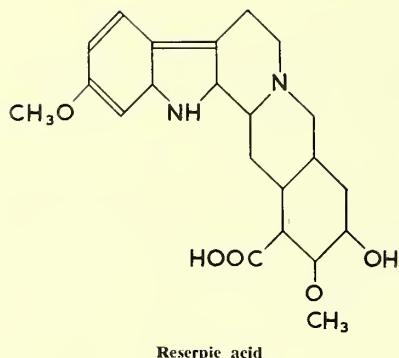
### Reserpine

Reserpine, the sedative principle of *R. serpentina*, was first isolated in pure crystalline form by Muller, Schlittler and Bein.<sup>15</sup> Its structure has been the subject of much recent investigation. Furlenmeier<sup>16</sup> found it to be an ester alkaloid yielding reserpic acid, 3, 4, 5 trimethoxy benzoic acid and methanol on alkaline hydrolysis, according to the equation

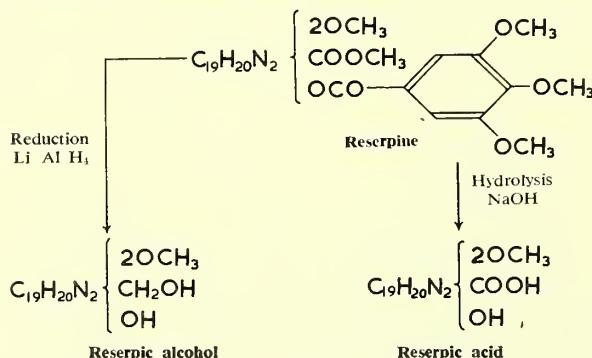


Dorfman and others<sup>17</sup>, who further studied the problem, gave the structure shown at the top of p. 216 for reserpic acid.

Neuss and co-workers<sup>18</sup> isolated reserpine by chromatography of the oleoresin fraction on acid-washed alumina and repeatedly recrystallised the alkaloid. Its melting point and molecular weight are 264-65° and 586. The formula  $C_{33}H_{40}N_2O_9$  is given by those workers. The basic hydrolysis

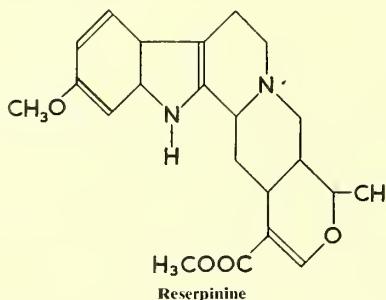


of reserpine yielded reserpic acid (m.p. 274-78°) (dec). Reduction yielded a new product for which the name reserpic alcohol has been proposed (m.p. 216-17°). The following structures are proposed. They are substantially the same as those of Furlenmeier and Dorfman.



In an independent investigation, Klohs<sup>19</sup> and others arrived at the formula of reserpine as  $C_{35}H_{44}O_{10}N_2$ , which is at variance with earlier data. Basic hydrolysis has been found to yield 3,4,5 trimethoxy benzoic acid and reserpinalic acid  $C_{21}H_{32}O_6N_2$  (m.p. 280°) instead of reserpic acid encountered previously. It is perhaps astonishing that Djerassi,<sup>20</sup> who worked on the South American *R. heterophylla* and obtained reserpine from it, got a reserpine sample for comparison from Klohs; yet Djerassi gave the formula of reserpine as  $C_{35}H_{44}O_9N_2$ . Though at the moment it appears from the evidence presented that the formula of reserpine may be  $C_{35}H_{44}O_9N_2$ , the formula remains to be confirmed and a suitable structure assigned to it after further work.

It was reported recently that a new minor alkaloid accompanying reserpine had been isolated by Schlittler and co-workers.<sup>21</sup> The name reserpine has been given to it. The compound has the formula  $C_{22}H_{26}O_4N_2$  (m.p. 238-39°). The structure is:—



Another alkaloid, Sarpagin, is also announced by Stoll and Hoffmann.<sup>22</sup> It is formulated as  $C_{19}H_{22}O_2N_2$ . There appears to be a relationship between reserpic alcohol and sarpagin.

## Pharmacology and Future

The pharmacology of serpentina alkaloids has been studied by Chopra<sup>23</sup> and later by Dutta.<sup>24</sup> In a recent detailed investigation,<sup>25</sup> reserpine has been found to show a marked hypnotic effect and to lower the blood pressure. Reserpine inhibits pressor responses evoked by electrical stimulation on the afferent and sciatic nerves. It has no peripheral sympatholytic and no ganglionic blocking activity. The blood pressure effect is not inhibited by atropine or by cutting the vagi and depressor nerves; it stimulates peristalsis. There is evidence that central portions of the sympathetic system are inhibited by this alkaloid. Djerassi has pointed out that reserpine can also be obtained from the South American plant *R. heterophylla*. It is not known yet in what quantity the alkaloid exists in that species or whether it may be a possible rival to the Indian plant in the extraction of reserpine.

Among the first companies to market *R. serpentina*-containing preparations in Great Britain were Riker Laboratories, Ltd. (Rauwiloid) and Ciba Laboratories, Ltd. (Serpasil).

Further academic and industrial research work on the alkaloids present in *R. serpentina* will contribute to a more precise knowledge of their chemical structures and their remarkable pharmacological action and will, no doubt, decide whether new preparations derived from the plant come on to the market in the near future.

## REFERENCES

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- 17 Dorfman et al, *Ibid.*, 1953. **9.** 368.
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- 21 Schlittler et al, *Exper.*, 1954. **10.** 133.
- 22 Stoll and Hoffmann, *Helv. chim. Acta*, 1953. **36.** 1143.
- 23 Chopra et al, *Twentieth Indian sci. Congress* (Patna), 1933.
- 24 Dutta et al, *Indian J. Pharm.*, 1947. **9.** 54.
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Acknowledgement is made to John Ronaldson & Co., Ltd., and to Biddle, Sawyer & Co., Ltd., for supplying samples of root for illustration.

## ECHOES OF THE PAST WOUNDS MADE BY METALS

From *SYLVA SYLVARUM*, by Francis Bacon, Lord Verulam, Viscount St. Albans (10th edition, London, 1676).

### EXPERIMENT Solitary touching Wounds.

IT hath been noted by the *Ancients*, that *Wounds* which are made with *Brass*, heale more easily then *Wounds* made with *Iron*. The *cause* is, for that *Brass* hath in it self a *Sanative virtue*, and so in the very instant helpeth somewhat; but *Iron* is *Corrosive*, and not *Sanative*. And therefore it were good that the *Instruments* which are used by *Chirurgions* about *Wounds* were rather of *Brass* then *Iron*.

## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, AUGUST 25: Trading in most markets continued on a small scale during the week, inquiry being mainly for those commodities that are difficult to obtain on the spot.

There were minor adjustments in the prices of some SPICES which included one penny per lb. rise in West African NUTMEGS. While there were sellers for shipment at 5s. under the previous rates, African GINGER was lower in price during the week but the Jamaican variety was up 5s. per cwt. in sympathy with higher replacement advices. It is reported from the West Indies that there is little cured MACE available for shipment although there has been no recent demand for it. RHUBARB is still very scarce.

There were no major changes notified by manufacturers in the PHARMACEUTICAL CHEMICAL market but there appears to be an easier trend in EPHEDRINE. Most of the chemicals that were exempted for Key Industry duty up to August 19 have received further exemption until February 18, 1955 (see *C. & D.*, August 21, p. 175).

In ESSENTIAL OILS several commodities are short on the spot and quotations are distinctly firm. They include Chinese ANISE and CITRONELLA from all the usual sources. Rectified CEDARWOOD is short also and holders are asking 7s. per lb. against the previous 5s. 3d. BAY is difficult to obtain on the spot and holders are now asking 10s. 6d. per lb. against 9s. 6d. a week or so ago and 8s. 6d. prior to that. A parcel of bay oil is afloat however and it is unlikely that the higher rate will hold for long.

### Pharmaceutical Chemicals

ASCORBIC ACID. — The following are the current prices (per kilo) for British material:—1 kilo, £9 0s. 6d.; 10 kilo, £8 14s.; 100 kilo, £8 8s.

ASPIRIN.—Prices are as follows:—5-cwt. lots, 4s. 6d. per lb.; 1-cwt., 4s. 6½d.; 28-lb., and under 1-cwt., 5s. 4d.

CALCIUM SUCCINATE. — Quotations are from 10s. 6d. to 12s. 6d. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 3d. per lb.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 6s. per lb., in 1-cwt. drums.

EPHEDRINE.—In 100-oz. lots ALKALOID is 7s. per oz.; HYDROCHLORIDE and SULPHATE, 4s. 3d. per oz.

ERGOMETRINE. — For 20-gm. lots the price of the MALEATE, B.P., is £27 10s. per gm., and the TARTRATE, £25 10s. per gm.

FERROUS SULPHATE.—1-cwt. lots of B.P. crystals are 42s. 6d. per cwt. and 5-cwt., 40s.; granulated, 2s. 6d. per cwt. more. EXSICCATED is 95s. per cwt. and 5-cwt., 91s.

LEAD ACETATE.—B.P. crystals are 180s. per cwt., and technical, 160s.

LITHIUM SALTS. — Current minimum rates (5-cwt.) are as follows:—BENZOATE, 11s. per lb.; CARBONATE, B.P.C., 11s. 3d.; CHLORIDE (commercial), 10s. 9d. to 11s.; HYDROXIDE, 10s. 6d.; CITRATE, B.P.C., 9s.; SULPHATE, 8s. 6d.; SALICYLATE, 9s. 9d. (10-cwt.), delivered.

### Crude Drugs

ALOES.—Small quantities of prime Cape on the spot are quoted at 220s. per cwt.; shipment, 205s., c.i.f. Curaçao is 305s. on the spot and 290s., c.i.f., for shipment.

BUCHU.—No shipment offers.

CAPSICUMS.—East African on stalk are 160s. per cwt., spot, Abyssinian, off stalk, 205s., spot, duty paid.

CHILLIES. — Mombasa. Spot cleared; shipment 325s. per cwt., c.i.f.

ERGOT.—Portuguese f.a.q. is quoted at 17s. 9d. per lb., c.i.f., London.

GENTIAN. — French natural on spot is quoted at 110s. per cwt.

GINGER.—African is firm on the spot at 237s. 6d. per cwt. with shipment offers lower at 230s., c.i.f. Jamaican No. 3 is now 250s. on the spot and 245s., c.i.f. Jamaican No. 2 is 260s. on the spot.

IPECACUANHA.—Nicaraguan is offered for shipment in the region of 61s. 6d. per lb., c.i.f. Colombian quoted at 62s. 6d., c.i.f., September-October shipment. Matto Grosso, 57s. 6d., c.i.f.

HYDRASTIS.—Root is 18s. per lb., on the spot.

KARAYA. — No. 1 gum on the spot is quoted at 260s. per cwt., and 230s. for shipment, and No. 2 at 170s. and 155s., c.i.f.

KOLA NUT. — African halves are available on the spot at 5½d. per lb.

LANOLIN. — In 1-ton lots the price of ANHYDROUS, B.P., is about 200s. per cwt. and HYDROUS, B.P., 145s.

LIQUORICE.—Natural whole root, spot: Anatolian, 60s. per cwt.; Russian, 40s.; Syrian, 35s.; Persian, 37s. 6d. Block juice quotations are 220s. per cwt. on the spot. Italian stick, from 310s. to 475s. per cwt., duty paid.

MACE. — West Indian pale blade is 9s. per lb.; for shipment, 7s. 10d., c.i.f.

MENTHOL. — Spot. Chinese is about 28s. per lb., duty paid; 26s. 6d., in bond; and 25s. 6d., c.i.f.

MERCURY. — Nominal spot value is £100 per flask (76-lb.), ex warehouse.

MYRRH.—Aden selected sorts are about £14 10s. per cwt. on the spot. Siftings are from £7.

NUTMEGS. — West Indian 80's quoted at 2s. 10d. per lb. on the spot and 2s. 7d., c.i.f., for shipment.

ORANGE PEEL.—Bitter quarters. Spanish quoted at 1s. 10d. and West Indian at 1s. 1d. per lb. on the spot. Bitter ribbon 1s. 2d.

PAPAIN.—Spot value for East African grade one is 20s. per lb. Ceylon white is about 24s.

PODOPHYLLUM. — *Peltatum* is 336s. per cwt. on the spot. *Emodi* is 145s.

QUASSIA. — Spot quotations for chips are about 45s.

SARSAPARILLA.—Jamaican native red is quoted at 2s. 7½d. per lb., c.i.f. Spot is from 2s. 9d. to 2s. 10d.

SEEDS.—(Per cwt.) ANISE.—Unchanged. Cyprian, 162s. 6d.; Bulgarian, 137s. 6d., duty paid. CARAWAY.—Dutch offered at

140s., duty paid. 125s. now quoted c.i.f., London, for prompt shipment from Holland. CELERY.—Indian is quiet with sellers quoting 165s. spot. CORIANDER.—Market firm. Morocco nominal at 65s. duty paid; English 75s. New-crop August-September Morocco for shipment has advanced to 59s., c.i.f., London. CUMIN.—Market unchanged. Spot: Cyprian is 125s.; Morocco, 127s. 6d., duty paid and 115s. in bond. Shipment: Cyprian, 114s.; Morocco, 103s. 6d., c.i.f. DILL.—Indian offering at 90s., spot. FENNEL.—Indian in poor demand with sellers offering at 85s., spot. FENUGREEK.—Market unchanged. Morocco 50s., duty paid spot. Shipment: 41s., c.i.f. MUSTARD.—English 67s. to 82s. 6d., according to quality.

SENEGA.—No spot offers. New-crop for shipment, 19s. 6d. per lb., c.i.f., nominal.

SHELLAC. — Spot quotations are:—F.O.T.N. pure, 345s.; F.O. standard No. 1, 360s., nominal; fine orange, 380s. to 410s. per cwt., ex-London warehouse.

### Essential and Expressed Oils

ANGELICA SEED.—Lower. Price per lb. is now quoted at 260s.

ANISE. — Spot supplies are offered at 10s. 3d. per lb. Shipment price quoted at 9s. 10½d., c.i.f.

BAY.—W. Indian is 10s. 6d. per lb. on the spot.

CEDARWOOD.—Spot quotations for rectified are now 7s. per lb. with Atlas at 5s.

CELERY.—Quotations are firmer at 135s. per lb.

CORIANDER.—Russian-seed oil is offered at 105s. per lb.

NUTMEG.—English-distilled oil is 35s. per lb. Imported oil is offered at 22s. 6d. per lb., duty paid, for drum lots.

SPEARMINT.—Offers of U.S.P. quality at 45s. per lb. on the spot and 42s., c.i.f., for shipment.

### UNITED STATES REPORT

NEW YORK, AUGUST 24: American producers are studying imports of lower-priced CHEMICALS from Europe with some concern, with particular attention to CHLORAL HYDRATE at the moment. Price increases have reduced imports of EPHEDRINE, CAFFEINE, THEOBROMINE and PHENOBARBITON in recent weeks. TARTRATES are reported to be very firm, with seasonal demand for TARTARIC ACID and CREAM OF TARTAR at good levels. In CRUDE DRUGS, BELLADONNA LEAVES are higher at 35 cents per lb. because of drought conditions in Europe, and Hungarian CHAMOMILE FLOWERS up by five cents to 75 cents. Also higher per lb. among crude drugs were ROSE FLOWERS at \$0.80-\$1.00 against a previous range of \$0.75-\$0.80, and Jamaica SARSAPARILLA ROOT at 55 to 75 cents against a previous range of 55 to 58 cents. Spot resale quotations for IPECACUANHA ROOT were pushed up to \$8 per lb. by heavy European buying. Spanish SAFFRON is now \$26 per lb. Chief interest among ESSENTIAL OILS was furnished by SPEARMINT OIL which suddenly dropped 40 cents to a new price of \$4 per lb.

## SPIRIT CONTENTS

THE following list supplements information previously given (see *C. & D.*, February 23, 1952, p. 263, and July 19, 1952, p. 87) on the percentage v/v content of ethyl alcohol, with equivalent strength in percentage of proof spirit, of some preparations of the British Pharmaceutical Codex 1949 (as amended by the 1952 supplement where appropriate) and the B.P. 1953:—

Preparation of the B.P. 1953	Percentage v/v of ethyl alcohol by calculation	Equivalent strength in percentage of proof spirit
Camphor water	0·2	0·3
Chloroform	1·0 to 2·0	1·8 to 3·5
Compound infusion of gentian	2·5 to 3·0	4·4 to 5·2
Elixir of cascara sagrada	1·0 to 1·2	1·7 to 2·1
Emulsion of chloroform	0·2	0·3 to 0·4
Emulsion of peppermint	0·1	0·1 to 0·2
Infusion of quassia	2·6 to 3·0	4·6 to 5·2
Mucilage of tragacanth	2·2 to 2·3	3·9 to 4·0
Syrup of ginger	4·0 to 4·4	7·0 to 7·7
Syrup of senna	5·3 to 6·0	9·2 to 10·5
Vinyl ether	about 4	about 7

Appendix VIII of the B.P.C. 1949 should be brought up to date with changes made in the B.P.C. Supplement, 1952, by the following alterations:—

Preparation of the B.P.C. 1949 as amended by Supplement, 1952	Alcohol limits per cent. v/v of ethyl alcohol
Extractum cocillanae liquidum ...	52—57
Extractum euphorbiae liquidum ...	36—42
Liquor cantharidini ...	87—89

The alteration in alcohol content of tincture of colchicum, B.P. 1953, makes the following amendments necessary:—

Preparation of the B.P.C. 1949	Percentage v/v of ethyl alcohol by calculation	Equivalent strength in percentage of proof spirit
Mist. colch.	4·2 to 4·4	7·3 to 7·7
Mist. colch. et sod. saffy.	4·5 to 4·8	7·9 to 8·4

## TRADE MARKS

From the "Trade Marks Journal," August 18

For chemical products for use in industry, other than in the manufacture of pharmaceuticals (1) MYSTOLENE, 729,390, by Catomance, Ltd., Welwyn Garden City, Herts.

For size included in class 1 (1) CLAM, B729,992, by Reliance Adhesive Co., Ltd., London, N.1.

For fertilisers (1) CULTOIDS, 730,485, by Stanwood Proprietaries, Ltd., Bolton, Lancs.

For soaps (3) LABEL devices including the word pyramid and pyramid design for antiseptic soap, 730,064, by Joseph Crossfield & Sons, Ltd., Warrington, Lancs.

For pharmaceutical preparations and substances for human use and for veterinary use (5). SERPRENYL, 727,889, by Ciba, Ltd., Basle, Switzerland.

For toilet paper (non-medicated) (16) SCOTRAM, 731,203, by R. S. Guthrie & Co. (Scotland), Ltd., Edinburgh.

## PRINT AND PUBLICITY

## Catalogues

PIFCO, LTD., Pifco House, Watling Street, Manchester, 4: Electrical Specialities, 1954-55.

## Medical Propaganda

ALLEN & HANBURY'S, LTD., Bethnal Green, London, E.2: "Presenting Allenbury's Antibiotic Service" (6-p. booklet); "Isogel" (4-p. folder).

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham: "A Normal Life—Anthisan and Phenergan" (4-p. folder); "Llargactil" (blotter).

## Periodicals

AYRTON, SAUNDERS & CO., LTD., 34 Hanover Street, Liverpool, 1: *The Ayrton Link*, Autumn 1954, Pp. 24.

POWERS-SAMAS ORGANISATION, 88 High Holborn, London, W.C.1: *Powers-Samas Magazine*, Vol. 20, No. 6, Pp. 10.

REMINGTON RAND, LTD., Commonwealth House, 1 New Oxford Street, London, W.C.1: *Remington Rand News*, No. 33, August 1954, Pp. 4; *Management Views*, July-August, 1954, Pp. 16.

## C. &amp; D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; \*=Tax 25 per cent.; †=Tax 75 per cent.

## NEW PRODUCTS AND PACKS

## ABBOTT LABORATORIES, LTD.

Erythrocin stearate suspension	I.R.P.	24	9	R
BURROUGHS WELLCOME & CO.		19	6	A
Louping-ill vaccine 50 c.c.				
STEWART, GOODALL & DUNLOP, LTD.				
	Doz.			
Goldentone shampoo*	13	8	2	0
Silvertone shampoo*	13	8	2	0
Pinetone shampoo*	13	8	2	0
Cream 121†	17	8	3	4
After shave lotion†	2	oz.	2	3
	4	oz.	16	0
Bay rum†,	2	oz.	12	0
	4	oz.	16	0
Brillantine†,	2	oz.	12	0
	4	oz.	16	0
Blue brilliantine†,	2	oz.	12	0
	4	oz.	16	0
Hair cream (oily)†	12	0	2	3
Hair cream (non-oily)†	12	0	2	3
Hand lotion†,	2	oz.	12	0
	4	oz.	16	0
Nuctol, tube†	13	4	2	6
jar,	16	oz.	54	0
Scalp oil†,	2	oz.	12	0
	4	oz.	16	0
Violet oil†,	2	oz.	12	0
	4	oz.	16	0
Wave set crystals†,	12	tubes	8	0
			1	6
Nucta hair gleam†	21	4	4	0
			2	6
Silverwhite†	13	4	2	6

## P.A.T.A. PROTECTED LIST

(Prices notified this week by the Proprietary Articles Trade Association)

## ALFRED FENNINGS (Agents: SUTTON &amp; SONS)

Fennings' fever mixture\*

2 gross and over

15 2 2 0 A

13 9

## MACLEANS, LTD. (addition)

New Macleans powder with aluminium glycinate\*

26 6 3 6

## TOKALON, LTD.

In Great Britain and Northern Ireland:—

Face powder†

9 6 1 8

17 0 3 0

Vanishing cream†

9 6 1 8

17 0 3 0

Rose skinfood†

10 0 1 9

18 8 3 3

30 0 5 3

Cleansing cream†

9 6 1 8

17 0 3 0

Film foundation†

25 8 4 6

Cake make-up†

20 0 3 6

Lipstick†

9 6 1 8

Rouge†

25 8 4 6

17 0 3 0

## DELETIONS FROM THE PROTECTED LIST

## CAMWAL, LTD., Aquaperia water

## VOCALZONE, LTD., Vocalzone pastilles and nasal capsules

## Show Material

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8: Showcard listing some of the social occasions when Oblivon may be of value.

## Advertising Campaigns

LIFEGUARD PRODUCTS, LTD., London: Lifeguard disinfectant. Regular widespread advertising.

NEW ERA LABORATORIES, LTD., Cecil House, Holborn Viaduct, London, E.C.1: Elasto. Widespread and consistent advertising.

A. J. WHITE, LTD., Coldharbour Lane, London, S.E.5: Murine eye drops. In the national daily and Sunday Press.

## Booklets and Leaflets

CYANAMID PRODUCTS, LTD., Bush House, Aldwych, London, W.C.2: "Cyanamid and Its Products," Pp. 30.

## COMING EVENT

Wednesday, September 1

SOUTH LONDON AND SURREY PHARMACISTS' GOLFING SOCIETY, Purley Downs golf club, Purley Downs Road, Purley, at 2 p.m. Bogey competition.

## COTY (ENGLAND), LTD. (from October 1)

L'Origan series:—

Perfume purser†	11	6
1/2 oz.	12	6
1/2 oz.	25	0
1 oz.	38	6
2 oz.	64	0
4 oz.	87	6
(in leather case) 2 oz.	75	0
Solid cologne†	6	11
Silk sachets†	5	0
box of 5	27	6
Silk pillow sachets†	3	6
Toilet water†	8	0
2 oz.	11	6
4 oz.	19	6
Airspun face powder†	5	0
Pressed powder compact†	12	6
refill†	4	3
Bath oil†	9	9
Bath salts†	19	6
Talcum powder†	11	6
Bath dusting powder with puff†	5	9
Toilet soap* box of 3	5	9
Bath soap*	3	3
Tonic hair friction lotion†	2	0
Liquid brilliantine†	8	9
Solid brilliantine†	5	0

## FRENCH OF LONDON, LTD.

Bonne Sante shampoo\* lotion\*

7 6

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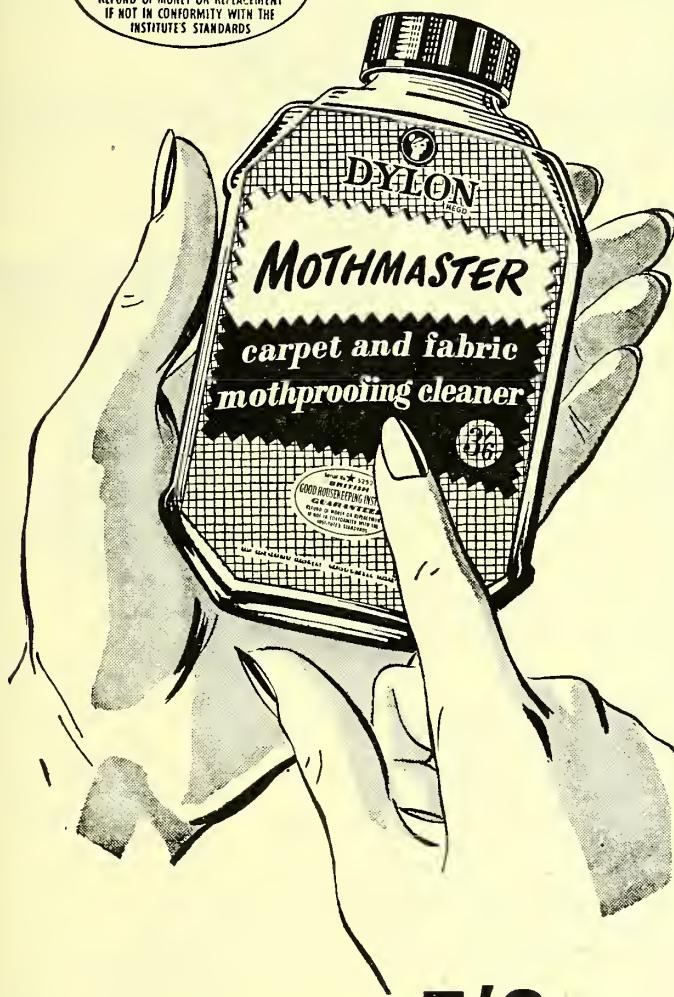
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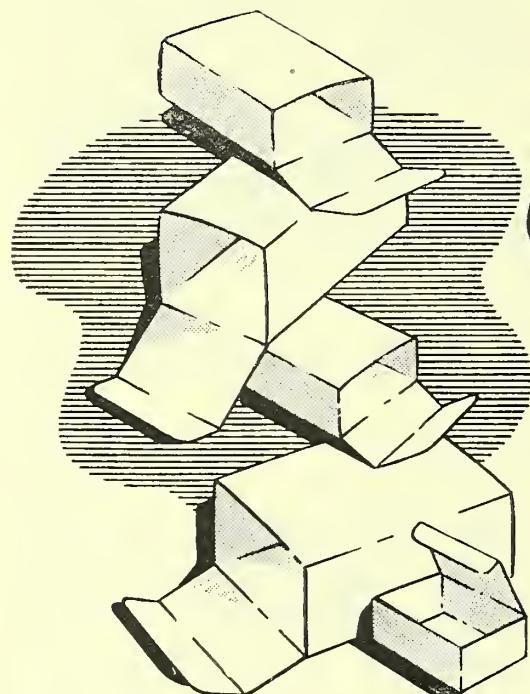
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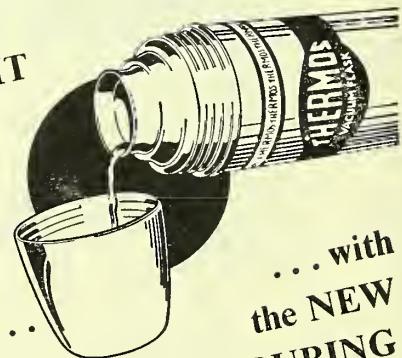
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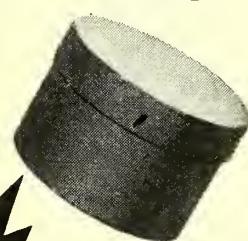
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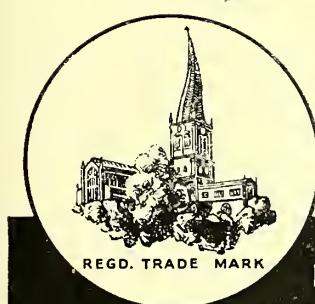
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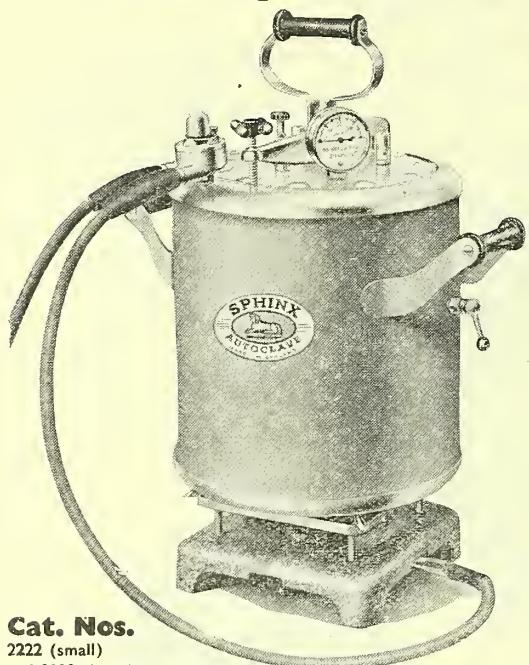
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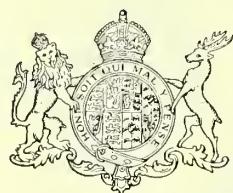
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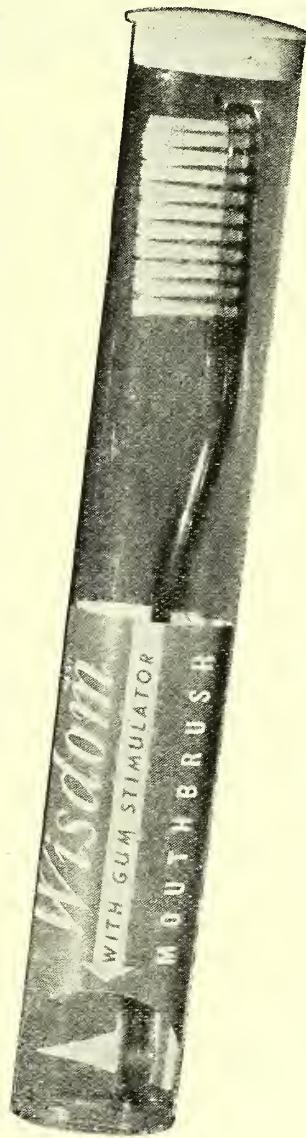
The stimulator is screwed into the handle, and if not required can be either unscrewed or cut off.

**2** To encourage people to take their dentists' advice, we invite them to try the Wisdom Mouthbrush at our risk. If they do not like it after three weeks' use they can return the Mouthbrush to us (not you) and we will replace it free with any standard Wisdom Toothbrush. All they have to do is to post the Mouthbrush to us at Hertford and say what kind of brush they want in exchange.

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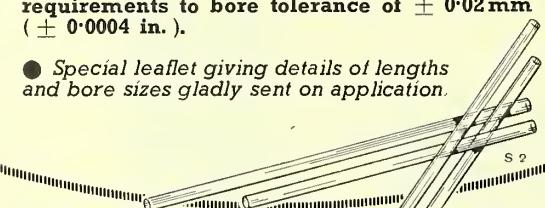
"I saw PYREX Precision Bore tubing being re-drawn in the PYREX works."

"The ordinary tubing is carried over a steel mould (a mandril they call it) and is re-heated in the process. It comes out the other side dead accurate to size and shape. And that's the tubing they use for these hypodermic syringes. I'm told it is accurate to four points of decimals."

"Yes, doctor, accuracy is certainly important, but what I find most remarkable is that these PYREX syringes never crack or break even in the hottest water."

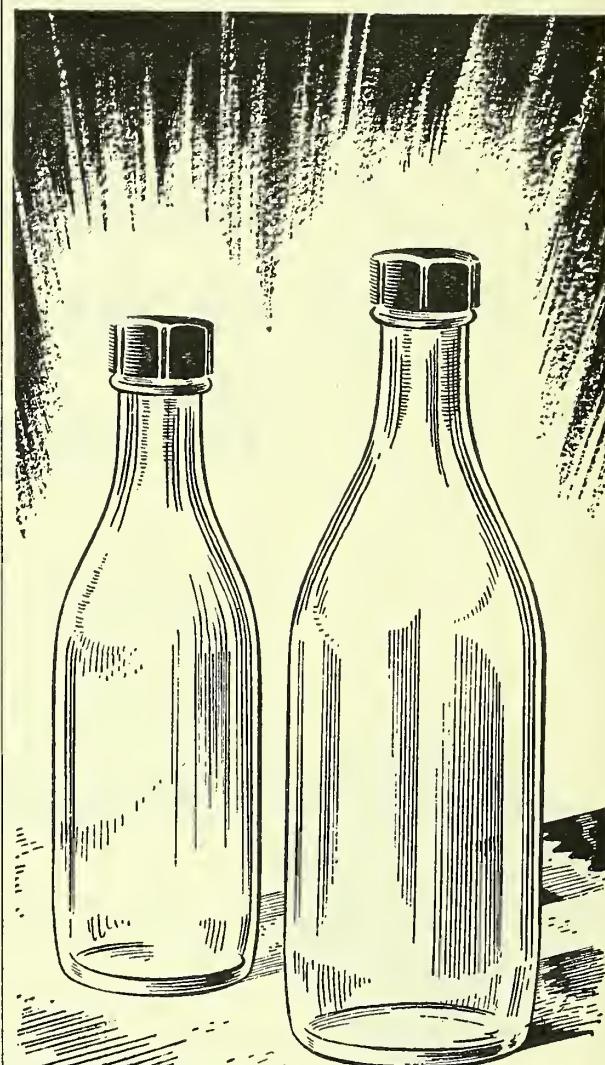
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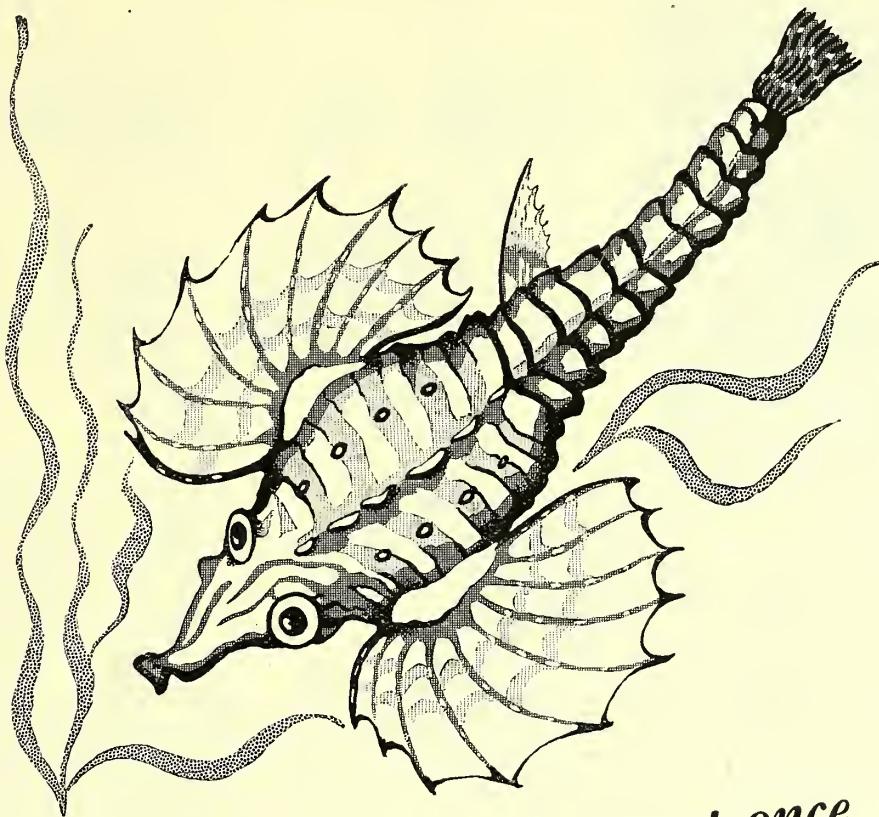
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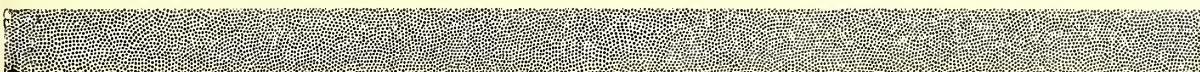


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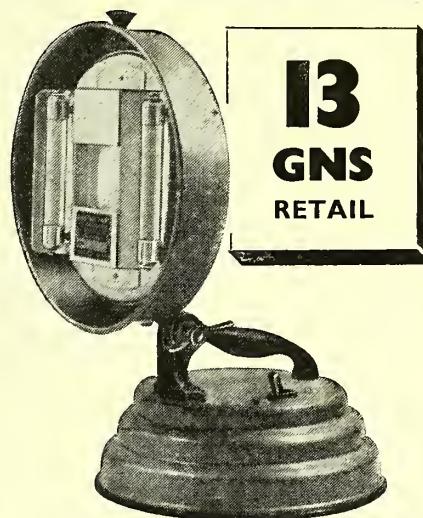
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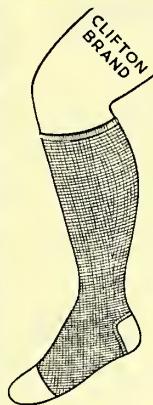


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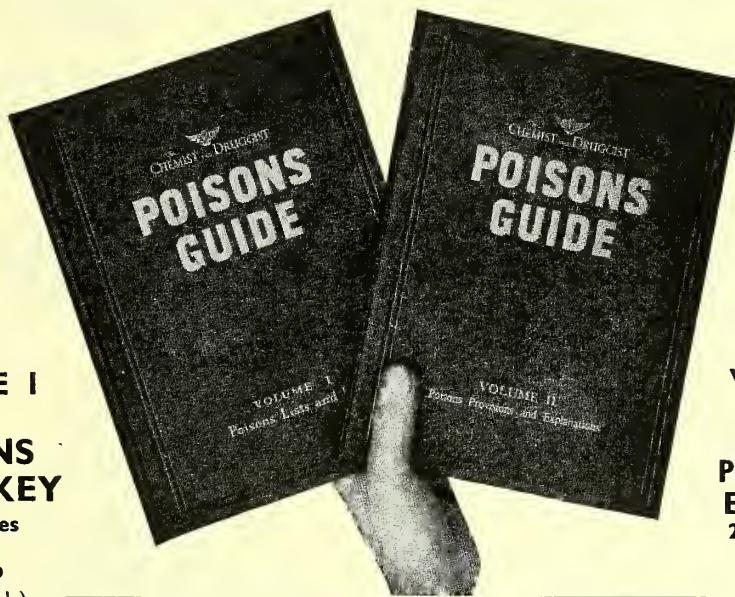
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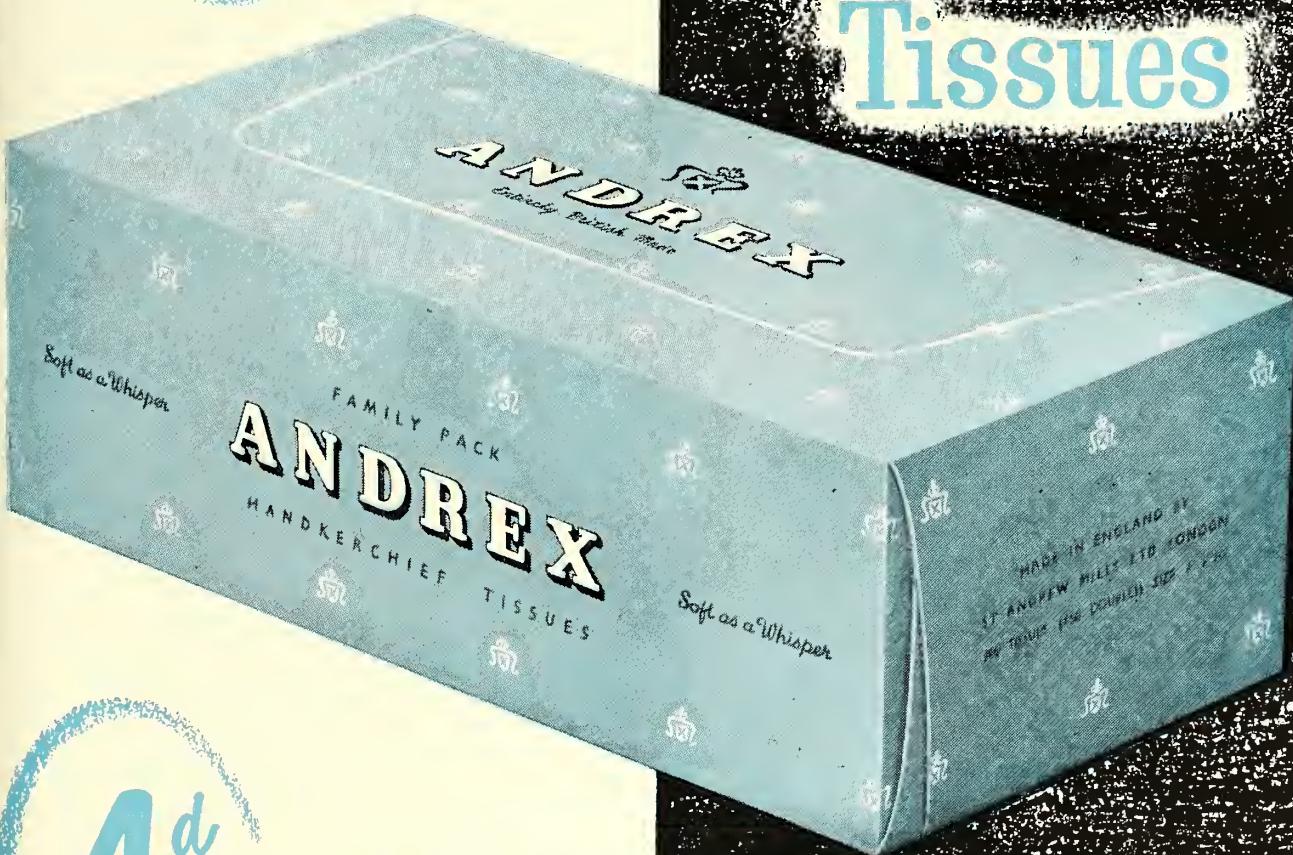
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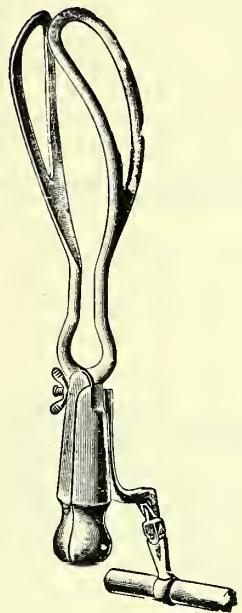
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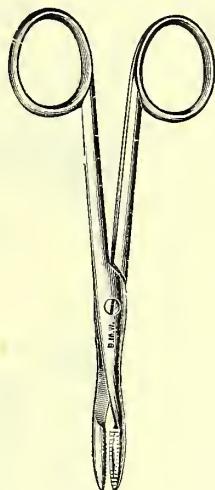
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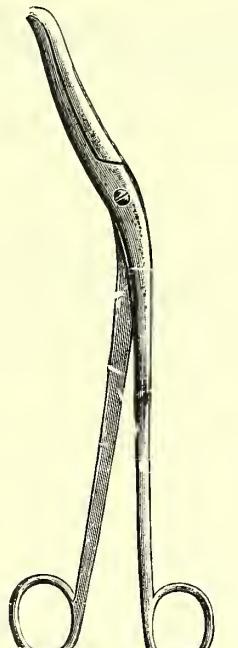
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**EAST MIDLANDS DIVISION**

Applications are invited for the following position within the Division:—

**First Assistant Chemist,  
 Longford Power Station, Coventry**

Vacancy No. 134/54

Applicants should have had practical experience in all branches of Power Station chemistry. Preference will be given to candidates possessing Higher National Certificate in Chemistry or equivalent qualifications.

Salary for the above appointment will be within Class G, Grade 9 (£641-£667 per annum), of the National Joint Board Agreement.

Closing date for receipt of applications—September 15, 1954.

The appointment will be pensionable within the terms and provisions of the British Electricity Authority and Area Boards Superannuation Scheme.

Applications should be submitted on the official form AF6/ACT which may be obtained from the Divisional Establishments Officer, British Electricity Authority, P.O. Box 25, Barker Gate, Nottingham, and should be returned to the undersigned by the date stated. Please quote Vacancy Number.

L. F. JEFFREY,  
 Divisional Controller,  
 20,8,54 C 7472

**ENFIELD GROUP HOSPITAL  
 MANAGEMENT COMMITTEE**

**Senior Pharmacist and Pharmacist**

required in the Group Pharmaceutical Department, Whitley salary (plus London Weighting) and conditions of service. Applications stating age, qualifications and experience and the names and addresses of two referees to the Secretary of the Management Committee, Chase Farm Hospital, Enfield. C 7443

**ENFIELD GROUP HOSPITAL  
 MANAGEMENT COMMITTEE**

**Locum Pharmacist**

required for indefinite period. Salary 15 gns. per week. Apply with full particulars and names of two referees to the Secretary of the Management Committee, Chase Farm Hospital, Enfield, Middlesex C 7442

**NEASDEN HOSPITAL,**

**BRENTFIELD ROAD, N.W.10**

**Part-time Pharmacist or Assistant in Dispensing**

required for 16-20 hours per week for an indefinite period, with possible permanency. Salary on Whitley Council rates. Apply to Chief Pharmacist. C 7438

**NOTTINGHAM No. 1 HOSPITAL  
 MANAGEMENT COMMITTEE**

**Senior Pharmacist (Female) and Pharmacist**

Applications are invited for the appointment of Senior Pharmacist (female) at the GENERAL HOSPITAL, NOTTINGHAM, to commence duties as soon as possible. Salary £525 x £25—£625 per annum plus extra qualification allowances where applicable.

Applications are also invited for the appointment of Pharmacist at the Highbury and Heathfield HOSPITALS, NOTTINGHAM, to commence duties as soon as possible. Salary £450 x £25—£575 per annum plus extra qualification allowance where applicable.

Salary and conditions of service in accordance with the Pharmaceutical Whitley Council Regulations.

Applications for these posts stating age, qualifications and experience together with the names of two referees to be sent as soon as possible to the Group Secretary, General Hospital, Nottingham. C 194

**QUEEN CHARLOTTE'S AND  
 CHELSEA HOSPITALS**

**Long Term Locum Pharmacist (female)**

Queen Charlotte's Maternity Hospital, Goldhawk Road, London, W.6. Salary 12 guineas per week. Full board and lodgings available if required for which an appropriate deduction will be made. Applications to the Secretary. C 7413

**ROYAL FREE HOSPITAL GROUP,  
 N.W. BRANCH, HAMPSTEAD**

**Locum Pharmacist**

required from September 1. Salary 14 gns. per week. Applications to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, London, W.C.1. C 7456

**ST. AUGUSTINE'S HOSPITAL,  
 CHARTHAM, nr. CANTERBURY**

**Assistant in Dispensing**

(Male or Female) required. Salary scale £335 to £435 p.a. plus £15 p.a. for Certificate of Apothecaries or equivalent. (Lower salary applies until 22 years of age.) Resident accommodation available for female assistant if required. Apply, giving age, experience and names of two referees to Secretary, St. Augustine's Hospital, Chartam, nr. Canterbury. C 7435

**THE LONDON HOSPITAL,  
 WHITECHAPEL, LONDON, E.1**

**Pharmacist**

Applicants must be registered Pharmacists. Salary scale £450 (age 23) x £25 to £575 plus London Weighting according to previous experience and service. Dining-room facilities available. Write Secretary. C 179

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Pharmacist

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**ST. LUKE'S HOSPITAL, BRADFORD**

953 Beds

Deputy Chief Pharmacist

Applications are invited for the post of Deputy Chief Pharmacist from October 1 next. Experience of manufacturing desirable. Salary £625 x £25—£725 p.a. Applications stating age, particulars of training, qualifications and experience with the names of two referees to the Secretary, Royal Infirmary, Bradford. C 7439

**THE HOSPITAL FOR SICK CHILDREN, GREAT ORMOND STREET, LONDON, W.C.1**

Pharmacist

Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25—£525) plus London Weighting, £25 for recognised higher qualification. Apply by letter to Chief Pharmacist, C 166

**UNITED SHEFFIELD HOSPITALS**

Pharmacist

Applications are invited for the post of Pharmacist (Female) at the JESSOP HOSPITAL FOR WOMEN, where a new department, modernly equipped, has been opened recently. Salary at present is £450 p.a. at age 23, maximum £575 p.a. Residence can be provided within the hospital if required. Applications, stating age, qualifications and experience (previous hospital experience not essential), together with the names of two referees to be sent to the Superintendent, Jessop Hospital for Women, Sheffield, 3. C 7408

**YORK 'A' AND TADCASTER HOSPITAL MANAGEMENT COMMITTEE**

Senior Pharmacist or Locum Pharmacist

required for County Hospital, York. Salary of permanent appointment £525 x £25—£625 p.a., with Higher Qualification Allowance £25 p.a., e.g., A.R.I.C., F.P.S. Locum fee not less than £15 15s. 0d. per week. Applications, giving age, qualifications, experience and names of two referees, to Secretary, Bootham Park, York, immediately. C 7473

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A FIRM of leading manufacturing chemists marketing ethical proprietaries in the United Kingdom are wanting to extend their medical representative sales staff in all parts of the country. Applications are required from representatives with previous experience. Car owner essential. Good salary and generous car allowance paid. Pension scheme in operation. Please give full details of experience and salary requirements in initial application, Box C 7461.

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**BIOREX LABORATORIES, LTD.** Hospital representatives, pharmacists preferred, required for expanding traveller force calling on hospitals with drugs, galenicals, ethicals, patent dressings and sundries. Experience essential; car owners. Greater London Area. Salary, commission, expenses, high income can be earned by an able person. Also Sales Representatives for London required. Apply with full particulars to the Managing Director, 47-51 Exmouth St., E.C.1. C 7470

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**WIGGLESWORTH, LTD.**, require a keen and experienced representative for their North East area (including Edinburgh and the Lake District), resident Newcastle or district essential. Vacancy arises owing to retirement of representative after twenty-eight years of service. Salary, bonus and expenses. Car provided. State experience, age and proof of selling ability, and address applications "Confidential—Sales Manager, Wigglesworth, Ltd., Westhoughton, Bolton, Lancs." C 7447

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**FISONS CHEMICALS (EXPORT), LTD.**, require further representatives (age about 28), of ability, resource and personality, for promotion of overseas sales of the fine chemical and pharmaceutical products of the Fison Group. Successful candidates would receive preliminary training in this country before taking up duties, mainly overseas, of detailing and supervising overseas agency arrangements. There are good prospects for the right men. Comprehensive pension scheme. Applications, with details of education, training and present position, should be sent to the Personnel Officer (D), Fisons, Ltd., Harvest House, Felixstowe, Suffolk. C 7464

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